Successful Farming

January 1949 · 20 cents

"Good farming is not enough"

LOWER YOUR COSTS WITH *The* Bale-O-Matic

THE PROFESSIONAL AUTOMATIC BALER that needs only the tractor operator and makes conventional well-packed, wire-tied bales that don't come loose. No wire ends drop on the fields or into bales!

ITS OPERATION IS AUTOMATIC

Bale more hay better at lower cost and in less time with the light-draft MM BALE-O-MATIC! Save time and lower feeding costs by baling when the hay is properly cured! Have uniform 35-40 or 45-inch bales that are compressed in layers for ease in feeding! The BALE-O-MATIC produces firm bales that are tied with two strands of steel wire while hay is under compression. *No loose or broken bales with the Bale-O-Matic . . . once tied, the bales stay tied!*

The BALE-O-MATIC picks up the hay, slices, and ties it into conventional oblong, square-cornered bales of a weight and density preselected by the tractor operator . . . *the only manpower required!* Positive raker-bar conveyor forks the hay quickly and evenly from pickup to auger which deposits hay in packer housing. After compression of uniform layers into a firm, wire-tied bale, an automatic metering device accurately counts bales as they are delivered.

The BALE-O-MATIC is powered by a four-cylinder air-cooled engine through slip-type four-inch cord belt. Speed of V-belt driven pickup may be easily changed to meet varying field conditions.

It's MM Quality! Built To Do the Work

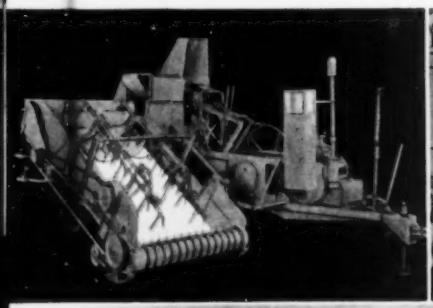
The BALE-O-MATIC has the long-life economy and dependability that have established an enviable reputation for MM HARVESTORS, MM HUSKORS, MM CORN SHELLERS . . . all the MM MODERN MACHINES, VISIONLINED TRACTORS and POWER UNITS that have proved performance and are preferred by progressive profit-wise farmers who till the soil in the modern manner.

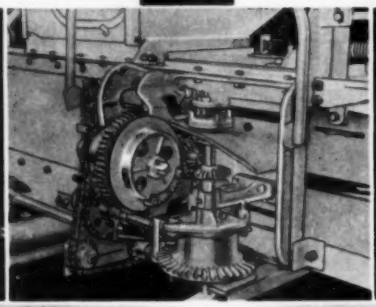
OUTSTANDING FEATURES

Bale chamber, plunger, and packer head and arms are of all-steel, welded construction. Sheer blade that slices hay into layers is of knife steel. Plunger and counter-shaft drive gears run in an enclosed oil bath. Roller-chain driven drive shafts turn on roller bearings or bronze bushings and are equipped with safety spring release clutches. Bale chamber is equipped with tension adjustment to permit selection of weight and density of bales to meet varying conditions. Proper distribution of weight on the two pneumatic-tired wheels assures lighter draft and easier operation of MM's *modern* one-man baler.

Get more Quality! Get greater Dependability! Get MM . . . and most of your neighbors and friends will demand your BALE-O-MATIC services to make owning it a money-making profitable proposition!

See Your Neighborly Neighborhood MM Dealer for Complete Information.





MINNEAPOLIS-MOLINE

MODERN MACHINERY

MINNEAPOLIS-MOLINE

POWER IMPLEMENT COMPANY, MINNEAPOLIS 1, MINNESOTA

Slippery ground stalled other tires — *but not this*

NEW SUPER-SURE-GRIP !

The massive tractor tire you see here is the new o-p-e-n c-e-n-t-e-r Goodyear —the SUPER-SURE-GRIP. It costs no more than other tires, yet *it goes where others won't!*

We built it to do so — by building more rubber into bigger, broader, higher lugs that make its time-proved Goodyear o-p-e-n c-e-n-t-e-r tread deeper-biting, stronger-pulling and far longer-wearing.

How good is this new Goodyear? It's the only tire which outpulls the former Sure-Grip. In tests against competitive tractor tires it led the field. It even got tractors through slippery ground at heavy drawbars where other tires slipped to a standstill!

You can see why just by looking at this massive tire. Lots more rubber in the lugs—lots more rubber in the ground. Bigger, broader, longer, *high-shoulder* o-p-e-n c-e-n-t-e-r lugs that grip like a gear wheel—providing super-long wear and "the greatest pull on earth!"

So common sense tells you this is the tire that will keep you going when it counts most. With SUPER-SURE-GRIPS on your tractor you can plow in soft wet spots — *work your tractor where you couldn't work it before.* So get them as replacements for worn tires and specify them on your new tractor. They cost no more but last far longer — *and keep going where other tires won't.*

We think you'll like "THE GREATEST STORY EVER TOLD" Every Sunday — ABC Network

GOODYEAR

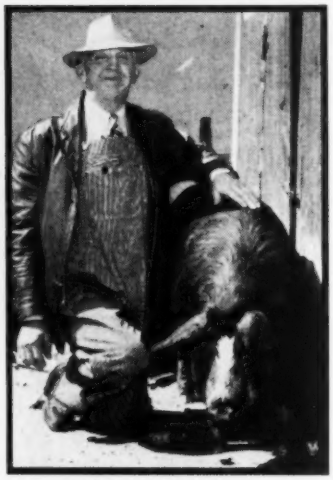
Super-Sure-Grip Tractor Tires

Super-Sure-Grip—T. M.
The Goodyear Tire & Rubber Company

NOT 1, NOT 2, NOT 3 . . .

Raised a Carload of Champions!

APPLE RIVER, ILL.—Walter Schlichting's idea of a pleasant hobby is one that pays off in blue ribbons . . . plus cash. For example, the carload of hogs he entered in last year's International Live Stock Exposition was awarded a Grand Championship!



Walter and Prize Winner

That was the PAY-OFF. What's Schlichting's HOBBY? Just feeding livestock . . . like the corn-fed beauty he's stroking here! Doesn't forget, either, to feed himself a big bowl of Wheaties at breakfast . . . four times a week, he says.

* * *

Another hobby: watching basketball. Walter Schlichting has followed the hoop sport for years. Gets a big kick out of close, fast-breaking games. He's also a long time Wheaties fan. Started eating 'em "because they're 100% whole wheat flakes." Walter's favorite is bananas with Wheaties and milk. Famous training dish, offering food energy, three B vitamins. Minerals, proteins.

* * *

Good idea to stock up on Wheaties in the Extra-Big-Pak size. Holds 50% more than regular size package. Convenient in homes where several are served regularly.

Many THREE-generation Wheaties families. More and more report several generations enjoying "Breakfast of Champions"! All generations in your family had their Wheaties today?

General Mills

"Wheaties" and "Breakfast of Champions" are registered trade marks of General Mills.

Successful
Farming

January 1949 Vol. 47, No. 1

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

Special Features

The calendar makes farming possible 20
What's ahead for farming 29
"Good farming is not enough" .. 32
New Congress may change farm program 45
Why high prices? 58

Soil and Crops

Hogs—a bigger market for forage 30
Wasted acres 34
Now—weedless grain and pastures 39
Weatherproof forage 71

Building

Kitchens that cook as good as they look 36
Laborsaving milking room 42
Year 'round shelter for geese 115
Two buildings in one 115

Herds and Flocks

It's not the cattle—it's you 43
From this plan more egg money. 89
New spray knocks mange 106
New book honors sheep 109
Veterinary 118
Livestock 122
Breed news 123
Dairy 124
Poultry 125

Foods

Eat, drink, and be slender 33
From ready mixes 40
Oven done! 44
Upside-down cakes 49
Hearty soups and chowders 50
Tips for the cook 52

Furnishings

They knew what they wanted 46

Sewing and Fashions

Needlework 83

Family

The Playhouse 82
Since you're such a wonderful guy 84

Regular Features

Farm outlook 6
The farmer speaks 8
What's new in farming 10
The farm woman speaks 12
The farmer's Washington 16
What's new in the home 18
Friend to friend 22
All around the house 24
What do you think? (readers' letters) 26
The farm quizbox 76
Department store listing 94
Successful short cuts 96
The new movies 98
News 114
Laughing at life 116
All around the farm 132

E. T. Meredith, Founder, 1876-1928
Fred Bohen, President
E. T. Meredith, Jr., Vice-President and General Manager
Glen D. Boylan, Vice-President and Director of Manufacturing
Lester H. Mugge, Vice-President and Director of Circulation

Kirk Fox, Editor Hugh Curtis, Managing Editor
Margaret Hegerfeld, C. E. Hughes, Associate Editors
Assistant Editors: Jim Roe, Verlo Butz, Edgar Young, Martha Quinn
Betty Camp, Barbara Bailey, June Duphorne, Kay Jones, Alice Hallen
William Raufer, Book Editor

Wallace F. Hainline, Art Director Gordon W. Elliott, Art Editor
Assistants: Frank Mathews, Bud Flanders
J. B. Davidson, Engineer H. E. Wichers, Architect
C. W. Howe, Manager of Meredith Farms

Cover photograph by Suter, Hedrich-Blessing Studio—see page 32

Successful Farming guarantees money back or replacement if you buy any article of merchandise that is not as advertised therein.

Subscription Rates: *One year $1.50 in United States and Possessions, Canada, Newfoundland and Pan-American countries. Other countries $2 per year. Any time you are not satisfied, your money will be cheerfully refunded. Entered as second-class matter October, 1902, at the post office in Des Moines, Iowa, under act of Congress, March 3, 1879.* *Copyright, 1948, by Meredith Publishing Company.* *Titles* Successful Farming *and* The Dairy Farmer *registered in U.S. Patent Office. Published monthly by Meredith Publishing Company, 1716 Locust St., Des Moines 3, Iowa, U.S.A.*

The Clock goes faster after noon—

EARLY in the morning, when you have the whole day ahead of you, the hours seem long. Much as there is to do, you feel that you have plenty of time.

But let the clock's hands slip past noon and see how fast the hours go—how pressed for time you are to get the day's work done!

The years of your life are something like that, too.

When you are young the future stretches far, far ahead. But once you pass the noon of life, the clock seems to tick faster, and you wonder if you can ever accomplish what you set out to do:

To provide for your family and build a secure future for them. To educate your sons and daughters. To provide some ease and security for your own later years.

That's why it is a good idea to think about life insurance soon enough . . . to realize that through it you can still build for your own later years and at the same time assure your family's security even if you should happen to die before your time.

Why not get in touch with your New York Life agent and talk it over right away?

"This month, at the end of one year and the beginning of another, you're more aware than ever of how quickly time passes. The next year will slip by just as rapidly . . . and the next. So don't put off making plans for the future too long. It's a good time, right now, to get in touch with your New York Life agent and arrange for your family's long-range protection through life insurance. If you don't know the New York Life agent serving your county, write to the Home Office at the address at left."

NEW YORK LIFE
INSURANCE COMPANY
51 Madison Avenue, New York 10, N. Y.

One SECOND CENTURY

New York Life, a mutual company, pays dividends to policyholders only. It is one of the strongest legal reserve companies in the world.

Farm Outlook

Latest information on conditions, production, markets, and income prospects

A PROSPEROUS NEW YEAR

The new year gets under way with the general outlook *good* for farmers. Forecasts are "good prices and continued big demand" for just about everything farmers can produce, especially in the line of meat, dairy, and poultry products. Best for several years.

With plenty of feed on hand, supply of these important food items will increase. Supplies of milk and eggs will go up first, followed by pork next fall and winter, and beef later on.

High level of employment is expected to continue. This will mean strong consumer demand and prices still at profitable levels for meats, milk, eggs, and poultry, despite increased production. That's the prospect at least during the first half of 1949.

AMONG CONSUMERS

Most prices of manufactured goods have flattened out in recent weeks, but costs still are rising. Strong factor here is the probable fourth round of wage increases. Expectations are that prices for manufactured goods will move up again.

Further wage increases will mean added purchasing power in the hands of consumers and an increased demand for goods. Consumers will continue resistance to high durable-goods prices, and much of this increased wages in the hands of consumers should go to bolster the price of farm products.

GRAIN PICTURE IMPROVES

The new year gets under way with the 1949 winter-wheat crop in good condition. Early snows in Kansas and Nebraska provided much needed moisture in those regions.

Grain prices strengthened in November. Wheat prices are expected to stay above support level thru May.

Indications are that corn prices will do better from here on out as a big 1949 export movement gets under way. Approximately 300 million bushels of wheat and flour have been exported since last June, plus about 100 million bushels of coarse grains.

THINKING IN WASHINGTON

Government action is the most important factor in our economy. To farmers, it's extra important. For attitude of congressional farm leaders, see page 45.

United States Department of Agriculture officials want to increase quantities of corn, wheat, and other crops that may be regarded as a "normal supply," in order to postpone evil days of acreage controls and marketing quotas.

Prewar, a carryover of about 100 million bushels of wheat and 300 million bushels of corn, was regarded as safe. Now the U.S.D.A. suggests 300 million bushels of wheat and 800 million bushels of corn are needed before crop controls come into the picture.

Regardless of what the government does, your long-range plan should be to build more and modern permanent cribs and bins on your farm. Common production from here on likely will be 1.1 billion-bushel wheat crops and better than 3 billion bushels of corn.

The scare that city consumers would pressure Congress into cutting down price supports for farm products is almost forgotten. Lower priced pork chops, hamburger, and butter soothed many unjustified complaints. Not a chance price-support law will be changed to lower levels for the 1949 year.

LIVESTOCK EXPANSION

This will be a year of hiking livestock production, the world over. First move will be to increase poultry and hogs both at home and abroad. This means a heavy demand for feedstuffs of all kinds.

European cattle numbers are around prewar size; hogs and poultry are far below. Livestock population in this country is the smallest in years. Feed will disappear rapidly as grain consumption increases. What looks like a big feed surplus now could melt away rapidly in the event of poor 1949 crops.

HOG SITUATION

Despite earlier than normal bulge in hog marketings last October-November, indications are that many producers have adjusted their program for late marketing. Could be that a slightly greater proportion of the October-April slaughter will occur after January 1 than was the case in 1947-48. Hog marketings last year were about equally divided between October-December and January-April.

Increased competition of vegetable oils with animal fats is a warning not to overproduce lard. This could cause hog-marketing troubles next winter. Again, we say it will pay you to strive for the meaty types, finish for early market, and don't waste feed on excessive fat. Our guess: Heavy, lard type hogs are permanently out of the picture.

POULTRY

The poultry industry is going into the new year with storage stocks of eggs and poultry meat below a year ago and the five-year average. Profits will be better in first half than in the last 6 months of 1949.

If you haven't already, order chicks now for early delivery. Big rush expected for chicks this spring. Don't overbuy. Fill houses with only normal number of chicks and earlier than usual. Best bet is to push for early production.

DAIRY

Storage stocks of butter, cheese, and evaporated milk are larger than a year earlier. Expect a normal seasonal decline in price of milk until midyear. No serious price break is expected. Fluid markets will be "preferred," and that's a place quality counts.

Returns above feed costs will be better than for the last few years. It'll pay to add a cow or two to your herd if you can find good milkers.

FEED IT RIGHT

Cheap corn can be expensive feed if not fed right. Following bumper corn crops, hog men tend to overfeed corn, especially to brood sows.

Big cost shows up in the spring pig crop. In smaller litters, unthrifty, and nonuniform pigs. Proper balance of grain, protein, vitamins, and minerals will hold efficiency and profits at higher levels.

Sows need abundant supply of essential vitamins to produce and suckle thrifty pigs. These can be supplied by good-quality alfalfa meal. Iowa State College suggests the following self-fed ration for pregnant sows: 600 pounds ground yellow corn, 600 pounds ground oats, 600 pounds alfalfa meal, and 200 pounds protein supplement. If sows gain too fast on this ration, cut down on the corn and increase alfalfa meal. **END**

In All Three 1948 National Plowing Matches the Champions Chose . . .

Firestone

CHAMPION Ground Grips

IT TAKES perfect tractor tire performance to win a national plowing match. The top-notch plowmen in this country have learned that through experience. That's why the winners in all three national matches at Big Rock and Wheatland, Illinois; and Dexter, Iowa chose Firestone Champion Ground Grip Tractor Tires.

They know, too, that tires must be correctly weighted and inflated to give perfect performance. That's why their tires were Firestone Hydro-Flated and then checked at exactly 12 pounds pressure before every match.

This combination of *Firestone Champion Ground Grip Tractor Tires with their full traction bite—Firestone Hydro-Flation*—and *exactly 12 pounds pressure* will give you championship performance just as it did the winners in the national plowing matches.

When you order a new tractor, insure championship performance by specifying Firestone Champion Ground Grip Tractor Tires.

Listen to the Voice of Firestone every Monday evening over NBC

Copyright, 1948, The Firestone Tire & Rubber Co.

LLOYD [illegible]
First in Men's Class
Wheatland, Illinois Match

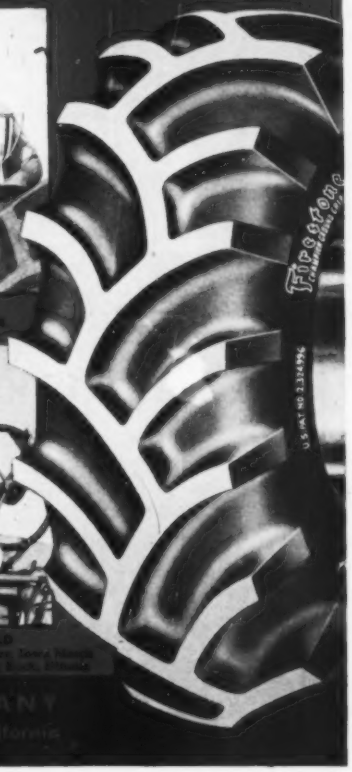
CARL [illegible]
Co-Winner in [illegible] Class
Wheatland, Illinois Match

GRAEME STEWART
First in Prize Winners Class
Wheatland, Illinois Match

ROBERT [illegible]
First in Prize Winners Class
Big Rock, Illinois Match

CARL HAGEMANN
Co-Winner in Postgraduate Class
Wheatland, Illinois Match

PAUL STEIFBOLD
First in Level Land Class, Dexter, Iowa Match
First in Gold Medal Class, Big Rock, Illinois



THE FIRESTONE TIRE & RUBBER COMPANY
Akron, Ohio • Memphis, Tennessee • Los Angeles, California

Shirley Talbott's smile wins title —"America's Loveliest Model"

Shirley Talbott, Conover Model, had just made her professional debut when she was named "America's Loveliest Model" in a nationwide contest conducted by a Washington, D. C., girls' club. A year later, she dazzled the beauty judges again—out of 3,000 girls, she was picked as "America's Dream Girl."

But one successful career isn't enough for Shirley. She is studying dramatics, now . . . looking toward the stage and screen. Wherever her career takes her, Shirley's winning smile will never be outsparkled—it's a Pepsodent Smile! "I brush my teeth with Pepsodent twice a day," Shirley says. "That's one beauty rule I never break!"

The smile that wins is the Pepsodent Smile!

Shirley Talbott knows it. And people all over America agree—the smile that wins is the Pepsodent Smile! They've seen how Pepsodent removes the film that makes teeth look dull—uncovers new brightness in their smiles!

Wins 3 to 1 over any other tooth paste—

Families from coast to coast recently compared New Pepsodent with the tooth paste they were using at home. By an average of 3 to 1, they said Pepsodent tastes better, makes breath cleaner and teeth brighter than any other tooth paste they tried. *For the safety of your smile use Pepsodent twice a day—see your dentist twice a year!*

ANOTHER FINE LEVER BROTHERS PRODUCT

The Farmer Speaks*®

National prohibition?

FARM folks, as a group, are well known for their honest and outspoken objections to Demon Rum. Laws against liquor-by-the-drink have come to be the rule in a number of farm states.

However, attitudes of our readers have changed considerably since the days when Carrie Nation went about chopping down saloons with her little hatchet. This was shown clearly when we asked:

Question 1: If the question of national prohibition should come up again, do you think Congress should or should not pass a law to stop the manufacture and sale of liquor?

Answer:	All farmers
Should	43%
Should not	50
No opinion	7

While they are personally opposed to the drinking habit, about half the farmers in the United States feel that national prohibition is *not* that cure.

Past experience with such a law may account for their objections. As an Iowa farmer of our acquaintance expressed it, "The so-called 'Prohibition Days,' as I remember them, were anything but that. They not only did *not* prohibit drunkenness, but they brought about a host of new problems—among them bootlegging, gangsters, and women drinkers."

Men vs. women teachers

Pursuing a different train of thought, our poll this month pulled the whistle cord on another problem of the day: namely, schoolteachers. Our concern this time was not with academic morals or ailments of the school system (see October, 1948, *Successful Farming*).

Instead, we inquired:

Question 2: Which do you think make the better high-school teachers—men or women?

Answer:	All farmers
Men	32%
Women	27
No difference	37
No opinion	7

Opinion was fairly evenly divided, with about a third of the readers favoring men instructors, and another third saw little difference. Less than a third favored the women.

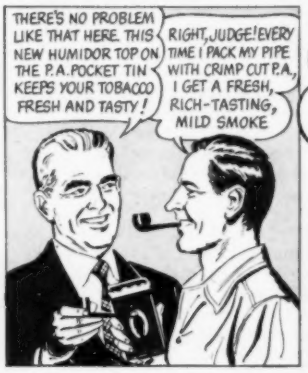
From both our "larnin'" and "teachin'" experience, we'd surmise that ability to keep order, rather than superior knowledge, is the reason behind the slight preference for men teachers. **END**

*An opinion survey conducted impartially thru a nationally known research organization.

Judge Robbins' HOBBY HUNT

Judge Robbins visits two hobbyists who find greater smoking pleasure in crimp cut Prince Albert—America's largest-selling smoking tobacco.

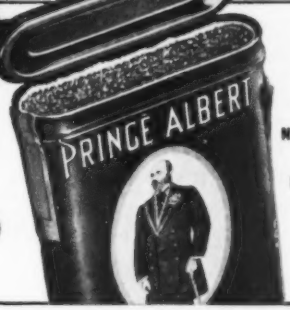
PHOTOGRAPHER



Prince Albert's choice, crimp cut tobacco is specially treated to insure against tongue bite. P.A. packs right and smokes right for more pipe comfort.

R. J. Reynolds Tobacco Company, Winston-Salem, N. C.

THE NEW HUMIDOR TOP LOCKS OUT THE AIR—LOCKS IN THE FRESHNESS AND FLAVOR



★ THE NATIONAL JOY SMOKE ★

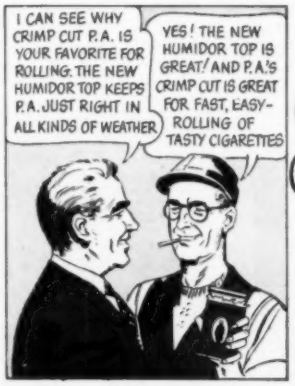
MORE MEN SMOKE

PRINCE ALBERT

THAN ANY OTHER TOBACCO

★ Tune in "Grand Ole Opry," Saturday Nights on NBC

DOG TRAINER



Crimp Cut Prince Albert is a favorite with "makin's" smokers. P.A. rolls up fast and shapes up easy into rich-tasting, full-bodied cigarettes.

What's new in farming®

Tips you can use today

Air conditioner. Homes in which the air tends to be dry and dusty are offered relief by the manufacturer of this device. He claims it is a sure means of maintaining proper moisture in the air to the end that sore throats, colds, and nasal irritations may be reduced to a minimum. The humidifier is operated electrically and may be used in any farm home where electric current is available.—*Fresh'nd-Aire Co., Chicago, Illinois.*

Tractor cab. Complete with heating unit, this cab makes winter tractor operation comfortable. It is made to fit all popular-style tractors. Only four heavy machine bolts are necessary to attach this cab to any tractor.—*Iowa Fibre Products, Inc., Des Moines, Iowa.*

Disc harrows. This Goble disc is a newcomer to the Midwest. The manufacturer claims a saving of 1 to 5 horsepower over conventional harrows, with a substantial lowering of fuel consumption. Sizes range from 3'9" for light tractors to 36' squadrons for use with heavy tractors. Disc sizes range from 22" to 26", with 9" or 10" spacing between units.—*Massey-Harris Co., Racine, Wisconsin.*

Grain standards. Official standards for sunflower and safflower seed have been established by the Minnesota Grain Inspection Department. North Dakota farmers produced over 20,000 acres of sunflowers last summer and tried out 350 acres of safflowers. Grade No. 1 sunflower seed will have a minimum test weight of 24 pounds per bushel, with not over 5 percent of total damaged seed or over 1 percent of heat damage. Safflower seed will weigh 40 pounds per bushel and have a minimum oil content of 28 percent.

Bird's-foot trefoil. Tests at the Soil Conservation Service Nursery, Ames, Iowa, have been under way with this crop for several years. Most satisfactory management resulted from combining it with such grasses as Kentucky bluegrass, redtop, orchard grass, or timothy. The trefoil responded remarkably well to phosphate fertilizer treatment. Preliminary observations indicate it may be necessary to top-dress old stands with phosphate every three or four years. The plant proved to be well adapted for pasture purposes in north-central Iowa.

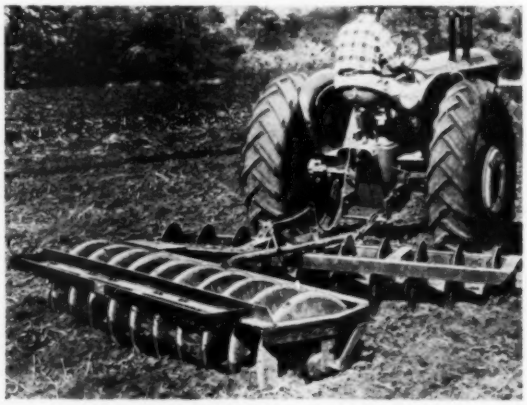
Wheat. The Wichita variety now is being certified by the Oklahoma Crop Improvement Association. It is recommended for use in the northwestern part of the state. It has a high test weight, good yield, and acceptable milling and baking quality.

Air conditioner

Cattle feed. Good feeder calves were finished Choice market grade on 39 bushels of corn in 235 days at the University of Illinois last fall. Other tests at the college showed that steers gained an average of 311 pounds in 158 days last spring on low-cost bromegrass or bluegrass pasture, both with clovers mixed in. This gain was valued at about $90 an acre, and the cost per 100 pounds of gain was only $9.94. The only grain or concentrate fed was 115 pounds of soybean meal.

Tomatoes. The setting of tomatoes can be speeded up about 2 weeks by use of a hormone spray on the flower clusters, according to Michigan State College. Size of fruit also is increased. The chemical is available under the trade name of Sure-set. It must be used according to manufacturer's instructions. Cost for the chemical should not exceed $5 per acre. END

Tractor cab



Offset disc harrows

The Tank Truck

Eagle Big Enough, registered 3-year-old quarter horse, nuzzles the shoulder of his master, Ed Breen. Mr. Breen says that by using Conoco N*th* Motor Oil he has held his overhaul costs to practically nothing.

Bingo! . . . and a brown bottle scatters to the New Mexico skies as Ed Breen, trick roper *and* crack pistol shot, swings up from the waist to catch his target on the first throw. He hits coins as easily as he hits bottles.

The Ropin' Rancher of Tucumcari!

A broken shoulder received while roping horses from a somersault put Ed Breen, Quay County, N. M., into the ranching business. Today he owns 7,000 and leases 3,000 acres of the finest grazing and feed land in eastern New Mexico.

Mr. Breen won his first major trick roping championship in Soldier Field, Chicago, in 1926. The following 3 years he spent as a trick roper with Ringling Brothers and Barnum and Bailey circus. When bad luck ended his big-time career, he came back to the land where he had grown up, and started raising cattle.

Today Mr. Breen is still one of the best trick ropers in the country. Last year he won 2nd in calf roping at the Kingman, Kans., rodeo. He seldom comes home without prize money jingling in his levi's. But ranching is his *real* business.

"I've been using Conoco Products in all my equipment for the past 8 years and I like them fine," Mr. Breen says. "I've driven my 1940 Ford pickup over 200,000 miles in all kinds of weather over dirt roads and right across the range. By using Conoco N*th* Motor Oil I've held my overhaul costs to about $75.

"Winter before last, when the weather was so awful bad, I had cows with little calves all over the range. When it gets cold like it did then, you're going to feed those calves or they'll die. With Conoco gasoline and N*th* oil, the pickup never failed to start . . . every morning she started right off and I never lost a calf.

"Conoco Agent C. A. (Skeet) Stinson of Tucumcari . . . gets what I need out here when I need it, without any fussing and fooling around about it."

"I'll Stand by It."...

When a man is a farmer—*and* a tractor mechanic, too — he's bound to know a lot about farm machinery. Take the case of Ed Monroe, Wakeeney, Kans., who helps implement dealers repair tractors. "I *know* my tractors, using Conoco N*th* Motor Oil, are in *much better* shape than those using other oils," he writes. That's because of the patented *added* ingredient in N*th* oil that combats oxidation. You'll get increased engine performance, longer engine life, and cut your operation costs by changing to Conoco N*th* Motor Oil. "I'll stand by it," Farmer-Mechanic Monroe says, "in *any* motor."

YOUR CONOCO AGENT

Potatoes in Etons!

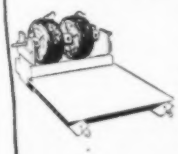
. . . by Mrs. Sadie E. Grover, Wellsville, Mo.

Select smooth medium-size potatoes. Pare a strip about ½ inch wide from around the largest circumference of each. Wash and boil in salted water until done. Cooked this way, the vegetable will be mealy—never soggy—and very easy to peel before serving. If served as cooked, the white interior, fluffing like lacy vests between gapping edges of brown jackets, forms a tempting sight. Can be dressed with salt, pepper and butter or thick sour cream.

Send your favorite recipes to Mrs. Annie Lee Wheeler, Conoco Cafeteria, Ponca City, Okla. Get a $7.50 pair of genuine Wiss Pinking Shears for each recipe printed here with your name. If duplicates are received, the one to be published will be determined by Mrs. Wheeler. All recipes sent in become property of Continental Oil Company.

FARM KITCHEN

Fence Wire Rack!



Mrs. D. J. Riherd, Stephenville, Tex., says her men folks thought up this rack for unrolling barbed wire when making fence. Can be made to fit on a regular sled or rock boat, or you can build it right on a sled.

Bale Tie Cutter!

A knife welded between the tines of a hay fork makes a good tool for cutting string bale ties, says Frank Symus, Whiting, Kans.

CONOCO

PRIZES FOR IDEAS!

Send your original ideas to *The Tank Truck* in care of this paper—and get a genuine $8 D-15 Henry Disston Hand Saw for every idea that's printed!

A Growing Family...Farm work...Housework...

At last! Day is done and the Rich family snuggles up for a few cozy minutes before bedtime. Baby Elaine is off to dreamland already, but Johnny, Helen, and Elizabeth don't want to miss a word of the story daddy is reading. Mrs. Rich (her arms just naturally go around John) says, "We're as happy as newlyweds. And as much in love!"

How does Mrs. John Rich keep that Happy Glow in her Marriage?

"Elaine's baths, bottles, diapers keep my hands in water. They'd be red and rough if not for Jergens Lotion," says Mrs. Rich. "It makes them so soft...the way John likes them!"

On the farm in North Carolina, Mrs. Rich helps with the fitting of their prize Hereford before the show. "Just rub your smooth hands over him for good luck!" John says.

"We don't have a washing machine...yet. (Listening, Mr. Rich?) So it's strong soap and scrub-in-the-tub. But Jergens Lotion makes my hands look pampered and velvety-soft!"

Mrs. Rich *uses* that extra bottle of Jergens in the kitchen. Being a liquid, Jergens Lotion quickly furnishes the softening moisture thirsty skin needs. Still 10¢ to $1.00 (plus tax).

More women use Jergens Lotion than any other hand care in the world

THE Farm Woman Speaks*

A woman's work is never done!

DESPITE push-button kitchen equipment and "newfangled" short cuts, it still takes a heap o' work to make a house a home. We thought it would be interesting to find out just which chore was the worst bugaboo to our women readers, so we asked them:

Question: Of the many household tasks which you perform each week, which of them do you like doing least of all?

Answers:†

Washing dishes	24.0%
Doing the laundry	16.9
Picking up after the family	16.6
Dusting furniture	15.4
Darning and mending	14.8
Cooking	8.9
Washing the separator	8.9
Mopping and dusting floors	8.3
Tending the fires	5.2
Packing school lunches	4.6
Waxing and varnishing floors	4.3
Making beds	3.4
Do not mind any household task	2.8

†The total is more than 100 percent because some respondents gave more than one answer.

"Washing dishes is a three-times-a-day drudge," said one woman. "Most of the other tasks are done less often."

Quite a few women disliked laundry chores. "With a large family, the laundry problem is endless," reported one homemaker. "Ironing makes me the most tired of anything," said another.

Picking up after the family is "tiresome—not from a physical, but from a mental point of view," according to one respondent. As for dusting furniture, one homemaker said, "I hope the day comes when builders manufacture devices to eliminate dusting!"

Darning and mending "seem hard to get done since you can put them off." When it comes to cooking, one lady commented, "I have no time to fuss or experiment—always too busy to bother." Packing school lunches is hard "because each one wants something different."

Washing the separator is "a big nuisance," according to one homemaker. "It doesn't fit in with my tasks indoors. I think the men should do it as part of their chores."

A few happy women said they really didn't mind any household task. As one homemaker expressed it, "I'm always looking for new ways to streamline my housework. That makes the time go faster, and the routine jobs don't seem so monotonous or tiresome." END

*An opinion survey conducted impartially thru a nationally known research organization.

WE'RE ON THE GO EVERY DAY

We've never been busier installing farm telephones than in the past few years. Today more farm people have telephones than ever before.

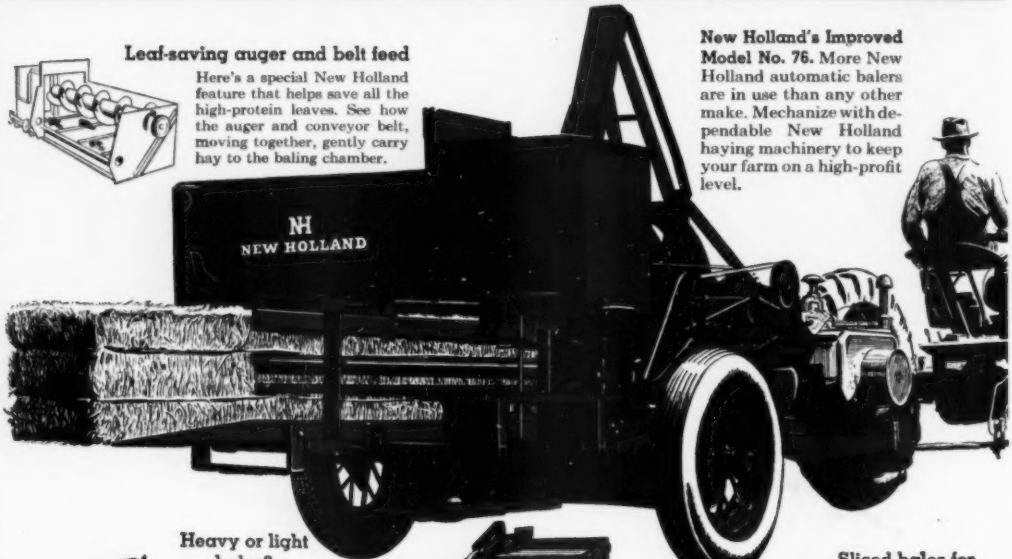
Since the war we've added more than a million telephones in rural areas served by the Bell System. To add this record number in little more than three years took a lot of everything. A lot of manpower. A lot of new rural pole lines – enough to circle the world three times. And a lot of wire – nearly 500,000 miles of it.

And we're still at it every day.

BELL TELEPHONE SYSTEM

More NEW HOLLAND Balers in use

Eight years ago the pioneer—today New Holland is the world's largest maker of automatic hay balers! That's because New Holland offers you the highest capacity . . . the sturdiest machine.



Leaf-saving auger and belt feed

Here's a special New Holland feature that helps save all the high-protein leaves. See how the auger and conveyor belt, moving together, gently carry hay to the baling chamber.

New Holland's Improved Model No. 76. More New Holland automatic balers are in use than any other make. Mechanize with dependable New Holland haying machinery to keep your farm on a high-profit level.

Heavy or light bales?

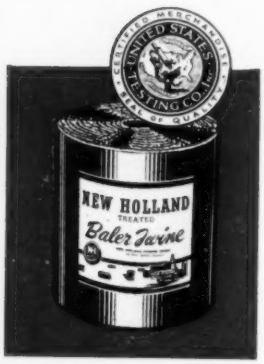
You can regulate a New Holland Automatic Baler to give you heavy, tightly compressed bales or light, loosely packed bales. *Note the rectangular bales preferred by buyers.* Accurate count of the finished bales is kept by the Productimeter, which is standard equipment.

Floating pick-up unit

Wherever your mower will go, your New Holland Baler can go, too! A Floating Pick-up makes it possible for you to use your baler on uneven or terraced ground.

Sliced bales for easier feeding

Once the twine is cut a New Holland bale comes apart neatly in easy-to-feed slices. This time-saving feature means not the hay mow *but the cow* gets the precious high-protein leaves!



The only Baler Twine Certified

for strength, uniformity and rodent-repellence by The United States Testing Company

● The United States Testing Company, one of America's oldest and largest impartial testing laboratories, has awarded the Seal of Approval to New Holland Baler Twine.

The Seal of Approval is awarded only to twine that measures up to the rigid standards of The United States Testing Company covering quality, strength, durability, uniformity and rodent repellency.

New Holland Black Twine is the No. 1 choice of farmers everywhere. You won't find a stronger, easier-running, better-knotting twine at any price. New Holland Treated White Twine is also available. Both twines are packaged in tangle-proof, collapse-proof cartons.

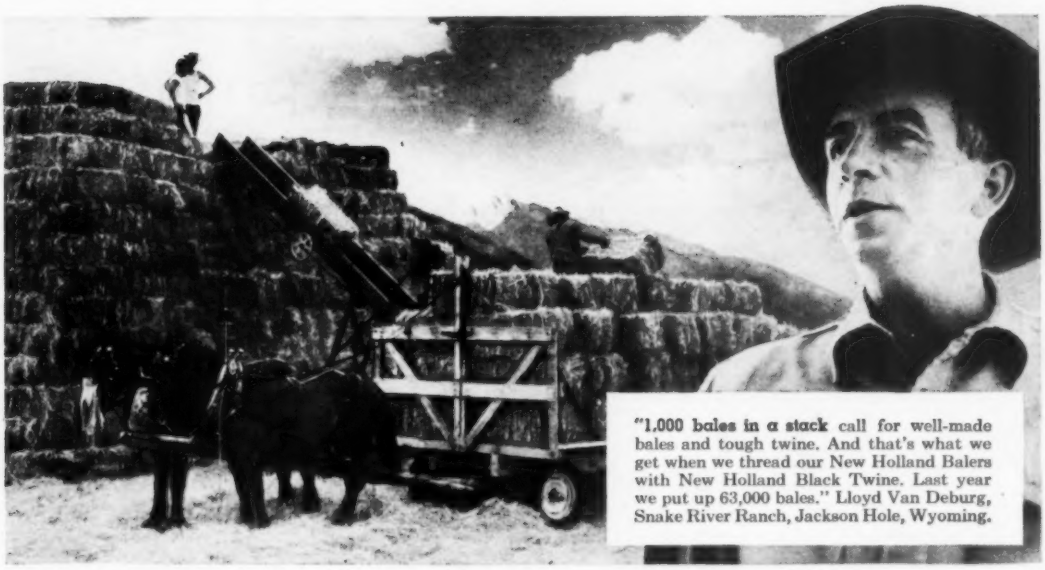
NH

NEW

Farm Engineered

NEW HOLLAND MACHINE CO.,

than any other automatic baler..!



"1,000 bales in a stack call for well-made bales and tough twine. And that's what we get when we thread our New Holland Balers with New Holland Black Twine. Last year we put up 63,000 bales." Lloyd Van Deburg, Snake River Ranch, Jackson Hole, Wyoming.

This loader picks up bales from any angle —no more hand lifting!

Now, New Holland Hay Chopper-Ensilage Cutter gives superior capacity on less power!

New "Machete Action"

An exclusive feature of the New Holland Hay Chopper-Ensilage Cutter is the high-speed slicing action of the cutting knives *pulling material in* to keep it from crawling away as in the "scissor-type" cutter. This superior method means greater capacity with less power. You get up to 20 tons an hour on 10 horsepower!

How it works: New Holland's sturdy loader is the final step in mechanized haying. It hitches to truck or wagon and needs no power of its own. The front-wheel "bale-guide" lines up bales, gently carries them to adjustable discharger platform—all in one quick motion. Labor costs are reduced: one man drives truck, one man stacks bales—and that's all the manpower needed!

The New Holland combination Hay Chopper-Ensilage Cutter feeds, cuts to desired length, and blows hay, corn or other crops to mow or silo. Material may be thrown or dumped from wagon or truck onto the extra wide, roomy table. Continuous metal aprons provide positive feed. One man can handle complete operation. Patented tractor hitch folds under to hold up feed table. Salvage pan is included.

SPECIAL SAFETY FEATURE: Reversing levers on both sides of the feed table are easily reached in case of emergency.

SEE YOUR NEW HOLLAND DEALER for more information about New Holland Hay Machinery—or details on the additional New Holland products listed below:
Cylinder Corn Sheller • Portable Tractor Saw • General-Purpose Mixer Cylinder Husker Sheller • Hydraulic Loader • Hammer Mill • Farm Belting

HOLLAND
Hay Machinery

NEW HOLLAND, PA., Subsidiary of The Sperry Corporation

Free

Illustrated catalogs showing New Holland Haying Equipment in detail. Please check and mail coupon today!

New Holland Machine Co., 401 Franklin St., New Holland, Pa.
Please send me catalogs checked: ☐ Baler ☐ Twine ☐ Bale Loader ☐ Hay Chopper-Ensilage Cutter.

Name_____

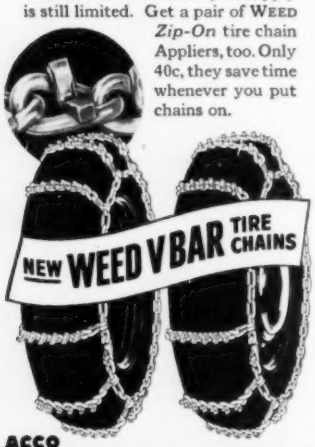
Address_____

State_____

● You'll discover driving over ice and snow is easier and safer when you use WEED AMERICAN V BAR-REINFORCED TIRE CHAINS. These new, improved chains give you better stop-and-go control. Remember this—safety is no accident. So use WEED AMERICAN V BAR chains.

They
Start Easier · Stop Shorter
Hold Straighter · Last Longer
Because of . . .
Two-Way Grip, Right and Left
288 Gripping Points
Heel and Toe Action

Feel Safe. Be Safe. Ask for WEED V BAR Tire Chains early as supply is still limited. Get a pair of WEED *Zip-On* tire chain Appliers, too. Only 40c, they save time whenever you put chains on.



ACCO
AMERICAN CHAIN & CABLE COMPANY, INC.
In Business for Your Safety

THE FARMER'S Washington

By Richard Wilson

★ The farmers, not city labor, really elected Mr. Truman

★ Would tie corn and hog support prices to the corn-hog ratio.

Farm upsurge. Farmers may be surprised at this, but the impression prevails in Washington that President Truman's election was a labor victory. This same impression is reported from the Eastern big cities.

The emphasis is all on labor. It is conceded the farmers had something to do with electing Mr. Truman, but played only a secondary role.

Just how wrong this impression is has been shown by Louis Bean, farm economist and analyst of election returns. Bean, who has been around the Department of Agriculture for many years, was the nearest right of all the election forecasters. He said Mr. Truman would be elected if there were 60 million votes.

His analysis of the election returns is an eye opener for federal officials studying how to carry out the will of the voters. It shows, in fact, that labor all but *lost* the election for President Truman.

The industrial East and the big cities failed to turn out their usual majorities for the Democratic ticket. But the farmers changed their votes from Republican to Democratic and turned the tide.

Bean's figures. As Bean analyzes the election returns, the first turn of the Midwest farmer to the Democrats actually began in the 1942 election when a Republican House and Senate were installed. Then in 1947, the pollsters began to report a continued swing toward the Democratic party.

Nobody paid much attention to the polls on this point except former Secretary of Agriculture Clinton P. Anderson, and Bean, of course. Anderson figured that the Democratic party really could make hay among the farmers. He convinced the Democratic National Committee. So, while all the political experts said Anderson and his political henchmen were wasting their time, they began a systematic campaign to hold the farm gains already evident, and extend them.

In 1948, the harvest came in. When the votes were counted, two things were discovered: (a) The big cities and labor areas failed to run up their customary majorities for the Democrats; (b) the farm states showed amazing gains for the Democrats.

Here's the story in figures. Democratic losses under the 1944 returns were the following in these ordinarily strong labor-Democratic states: Connecticut, 4 percent; New York, 3 percent; Pennsylvania, 4 percent; New Jersey, 3 percent; Michigan, 2 percent; and Delaware, 5 percent.

At the same time the astonishing gains for the Democrats were these: Indiana, 3 percent; Wisconsin, 3 percent; Minnesota, 5 percent; Iowa, 4 percent; Missouri, 7 percent; South Dakota, 6 percent; Nebraska, 5 percent; Kansas, 6 percent; and Oklahoma, 7 percent.

And there was another astonishing fact. The Democrats lost strength on the West Coast. Washington, Oregon, and California all showed percentage losses. So did some of the Mountain states.

The lesson from Bean's figures is that all of a sudden the Democratic party has shifted its focus out of the South and out of the big cities to the agricultural and semiagricultural areas of the Midwest. It is true that no detailed breakdown of farm and town vote has yet been made.

But it is pretty clear that when states like South Dakota, Nebraska, Kansas, and Iowa show such large percentage-point gains for the Democrats, there is about only one place it could happen. That is on the farms and in the small towns and market centers for the farmers.

This is bound to have a mighty effect in Washington. Just so there is no mistake about it, Secretary of Agriculture Brannan is seeing to it that President Truman gets the full picture of Bean's analysis of the vote.

14 to 1. Something really big may be coming along for Cornbelt farmers. There is a growing sentiment in U.S.D.A. to tie the corn-hog ratio at 14 to 1 for the purpose of fixing support prices for corn and hogs.

This will take a legislative change. It can't go into effect in time to affect the spring pig crop, but if Congress goes along, it may be done soon enough to affect the fall crop.

What is involved, of course, is having both the price of corn and the price of hogs move up and down, but always at the fixed ratio of 14 to 1—and that is a very favorable ratio for growing hogs, which is just what the U.S.D.A. wants the farmers to do.

High-level support prices. There may be a real drive for continued high-level support prices, without resorting to the flexible level of the Hope-Aiken Bill. That worries Secretary of Agriculture Brannan and the U.S.D.A., to say nothing of the Farm Bureau. It's the big issue now—firm price supports at 90 percent of parity, or so, vs. the flexible system. For a complete account of what Congress and Washington farm leaders are thinking, turn to page 45 of this issue. END

ADOLPH J. EHLER and sons of Austin, Minn., use *forty* B. F. Goodrich tires on their 400 acres. "That's how well we like them!" they say.

"30,000 MILES, never a flat, and still a lot of rubber left" on the Ehler brothers' B. F. Goodrich Silvertowns. They outwear other tires.

B. F. GOODRICH truck tires really take the loads, the Ehlers report They've hauled 10,640-pound loads of corn on the same tires for three years.

ONE EHLER TRACTOR now has "thirty per cent more power". The B. F. G. open-tread tire "seems to cling better and doesn't fill up".

Farmers get more miles because ***RESEARCH KEEPS***

B.F. Goodrich

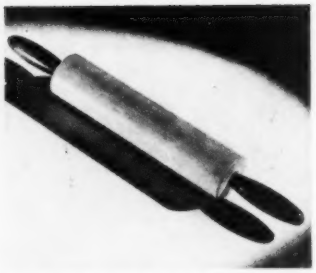
FIRST IN RUBBER

You get more safety, too!

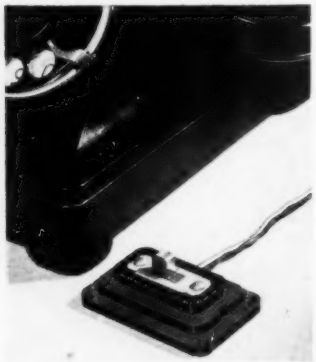
More Miles! More Safety! More Comfort! Whatever you want in a tire, B. F. Goodrich gives you *more!* That's because research—now backed by the world's greatest rubber research center, recently opened in Brecksville, Ohio—keeps B. F. Goodrich quality the best. Get B. F. Goodrich tires for every wheel on your farm. They're best in the long run! The B. F. Goodrich Company, Akron, Ohio.

Look for this sign
of service when buying or recapping tires.

What's new in the home



You can bake a pie in half the usual time with this new, ball-bearing rolling pin. It spins easily over the dough, fairly taking the arm work out of rolling pastry! It's made of beautifully polished maple, with walnut handles. The roller is 10½ inches long; the handles are a generous 4 inches, to permit a firm grip. It's unbreakable, too, with a steel rod running from handle to handle. For the fastest, lightest rolling you've ever known, order this rolling pin from the *Miles Kimball Company, 5 Bond Street, Oshkosh, Wisconsin.* It's $1.95, postpaid.

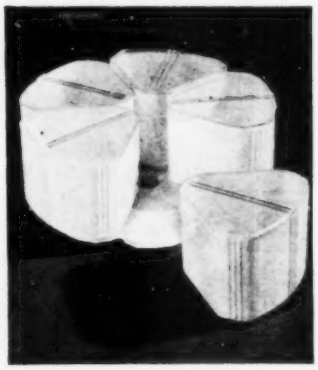


Carry on a telephone conversation without a trip to the radio to turn down the volume. This easily installed switch is mounted near the telephone; connecting wires fasten to the radio-speaker wires. Just slide the switch to turn down the radio; slide it back again when you're thru telephoning. The Rad-Lo switch comes in black, walnut, or ivory. Look for this switch in stores. Or send $1.95 to the *Nelson-Foote Manufacturing Co., Box 706, Boulder, Colorado.*

Investigate this giant edition of a coffeepot for those occasions when your family-sized number doesn't quite fill the demand. It's just the thing when the crowd gathers for a hot cup of coffee—plus refills! You can make as many as 18 cups of the steaming brew in this handsome aluminum, drip coffee maker. Measure the water in the top; when it has dripped thru, lift the top off by its heat-resistant handle, and serve the coffee right from the lower bowl. Look for this *West Bend* coffee maker in hardware and department stores. About $8.

No more squint when you thread your needle! This ingenious, little device does all the work for you automatically. Here's how to operate the threader: Insert the needle at the top, push the button, draw the thread thru slit on the side, and release the button. The needle is pulled out all threaded! A slicing lever at the side cuts the thread to the sewing length you want. *Artisan Galleries, Fort Dodge, Iowa,* will send the Thread-a-matic to you for $2.95 postpaid.

Dress up your furniture, woodwork, and floors with this transparent, plastic coating. It is skidproof, which makes it safe for floors. A damp cloth is all that is necessary to keep it clean. Continuous waxing is not necessary because the glossy finish is permanent. It resists hot liquids, acids, and weather-wear, and does not chip or peel. It is applied easily with a brush, dries in a short time. Look for *Plas-Tile Nu-Clear* in your local hardware or paint store; $2.75 a quart.



You'll bless the day this revolving canister set found its way to your kitchen! Five 32-ounce, plastic jars are nested on a ball-bearing base. They have clear covers for instant visibility. The "Kanisterette" set comes in red, yellow, green, white, and multicolored jars for top-of-counter use, or in crystal-clear jars with white covers for refrigerator use. The sets are sold in department and hardware stores. If not available in your community, send $5.45 to *Scurlock Industries, 604 North Wells Street, Chicago, Illinois.*

Yes! Procter & Gamble's WASHDAY MIRACLE is also a

DAIRY MIRACLE!

TIDE cleans dairy utensils like magic!

NEW and completely different . . . *that's Tide!* You saw how different Tide was, the first time you tried it in your washing machine. Why, even the suds *look* different . . . *feel* different! Now, if you'll just try Tide for cleaning your dairy utensils . . . you'll see another Tide miracle. Tide cleans all dairy equipment SO easily, efficiently, economically, no wonder more and more women every day are turning to Tide for dairy cleaning jobs.

LIGHTNING-FAST!

Two minutes . . . that's all Tide needs to clean the cream separator—and clean it *better*. Tide instantly penetrates . . . loosens . . . and floats away dirt and grease. (See directions below.)

NO SCRUBBING— NO SCOURING!

It's like magic the way Tide cuts grease and cleans away milk slime. If there's any left clinging, you can remove it easily with a soft brush. No hard brushing or scouring ever needed.

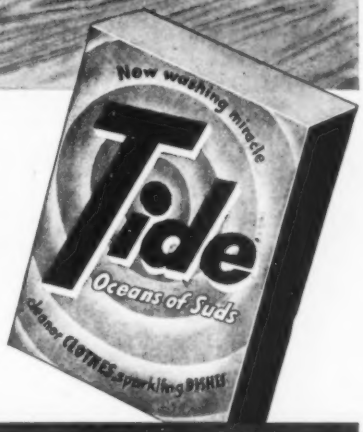
PREVENTS MILKSTONE!

Tide cleans SO thoroughly that no new milkstone ever forms . . . *as long as you continue to use Tide*. Tide routs out *hidden* grease and dirt . . . keeps bacteria count down. (And Tide's *thrifty!* A little goes so *far*, even in cool, hard water.)

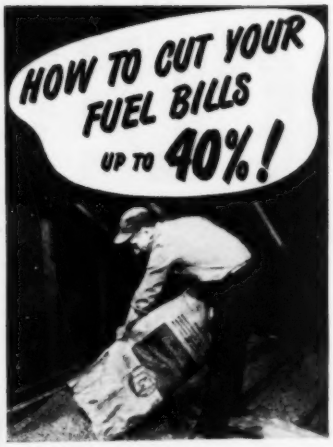
1. Flush out last of cream with a pint of warm water. Put a tablespoon of Tide in supply tank; add a pail of warm water. Brush supply tank inside and out while Tide solution is running through machine.

2. Dismantle machine, place discs in Tide solution and run brush through hole to flush off remaining cream. Brush bowl parts in Tide solution.

3. Shake the discs apart and place them in the supply tank with all other parts. Rinse thoroughly with hot water. Drain and then let dry.



EASY! EFFICIENT! ECONOMICAL!



ZONOLITE* Vermiculite Insulation So FIREPROOF It Snuffs Out Flames!

You can beat the high cost of fuel this winter by insulating your home. Records prove that Zonolite Vermiculite insulation actually cuts fuel bills up to 40%! You get the advantage of *extra* fire protection when you use Zonolite, instead of ordinary insulation. Every granule of Zonolite has been Flame-Tested at 2000°. No other home insulation is so fireproof up to such high temperatures. In fact, Zonolite is so fireproof, it snuffs out flames! This is vitally important to you on the farm.

EASY TO INSTALL

You can easily install Zonolite in your attic yourself in just a few hours. It's light and easy to handle . . . flows freely into every nook and cranny. Zonolite is the only pour-type insulation that will not irritate your hands . . . will not give you "insulation itch."

Zonolite Vermiculite insulation costs little . . . pays for itself many times over. Not only cuts fuel bills, but keeps your home warmer in winter . . . cooler in summer. See your nearest lumber and building supply dealer for complete information. Or send coupon now for FREE BOOKLET about this new miracle insulation!

MAIL COUPON TODAY FOR *FREE* BOOKLET

ZONOLITE COMPANY
135 S. La Salle St. • Chicago 3, Ill.

ZONOLITE BRAND VERMICULITE INSULATION

SOLD BY LUMBER DEALERS

Zonolite Company, Dept. SF-19
135 S. La Salle St., Chicago 3, Illinois

Please send me your FREE booklet, "Insulation and Fire Protection in the Home"—that tells the amazing economy and fire protection benefits of Zonolite Insulation.

Name.....

Address.....

City.....*State*.....

**Zonolite is a registered trademark of Zonolite Company*

The calendar makes farming possible

This bright paper tool is as necessary as your plow. It's full of entertainment, too

By Paul Gramling

THAT bright, cheerful calendar your banker, grocer, or elevator man will be handing you the next few days—ever think what a useful tool it is? It's about as necessary as a plow or combine when it comes to planning your farming operations.

Pretty hard to tell about planting, harvesting, or livestock breeding if it weren't for the old reliable calendar hanging on the wall. And your other activities soon would be in a mess without it. Such as trying to remember Sundays, the Fourth of July, Christmas, your wife's or husband's birthday, anniversaries, and so on.

Pictures courtesy U. O. Colson Company

Children, pets are favorites for humorous calendar art

NOWADAYS, your calendar is accurate. But it wasn't always that way. In olden times, wise men disputed loud and long over the proper markings and dates, as we'll mention later. And in the calendar's development lies a fascinating story—of history, science, humor, entertainment, and of a multimillion dollar industry.

The calendar plugged along for centuries as a mere recorder of dates—no pretty girls or daring hunters to enliven them as of today. Then about 1902, salesmen discovered the calendar as an ideal spot on which to place advertising messages. And the pretty pictures to draw more attention to the advertising.

Peaceful farmsteads are appealing. Title of above scene is "Comfort"

For strong outdoorsmen, hunting and wild animal pictures enliven calendar

In short, that's the why and wherefor of those attractive calendars your business friends in town will be handing you. About 135 million of the 1949 calendars will be distributed, with the peak between Christmas and New Year's.

For the calendar parade of 1949, humorous and juvenile pictures are out in front, followed closely by outdoor subjects, such as dogs, fishing, hunting, camping—often in a humorous vein. On this page and pages 72 and 73 are reproduced several of these subjects. Maybe some of these very ones will be showing up on the new calendars you'll be bringing home.

Anyone who can't smile over the baby's mischief?

Nip and tuck with the outdoor subjects are the girls, evenly divided between floral designs, bathing beauties, evening dress, and some less fully clad.

THE calendar makers supply their trade with a variety of subjects suitable for any age, any eye, any spot. The illustrations usually are reproductions of original paintings from the easels of some of the country's top-flight artists. Each year's calendar illustrations are planned and prepared several years in advance.

[*Turn to page 72*

What makes it tick?

You can't expect a clock to work if you take it apart. The springs and wheels must all work together to make it tick. Likewise, the "springs and wheels" within our organization must all work together to bring you and the nation the petroleum products you need so urgently.

1. WORKING TOGETHER are these men and the more than 46,000 other employees of this company and its subsidiary companies. They are breaking records for the production and sale of crude oil and finished products. Their wages and benefits average over $4,000, and each of them is backed by an average $25,000 investment in tools and equipment. This investment is made possible by the 97,000 stockholders who own Standard Oil, among whom no one man or woman owns as much as 1%.

2. WE AND THE PEOPLE who use our products depend on each other. Thousands of agents and independent service station operators bring you the products of our refineries where we are working harder than ever to help meet your huge demand. Last year, in part by the use of borrowings and earnings, we spent far more than our net profit for new facilities to increase output. This year, again, the thousands of people who make Standard Oil tick are working to bring you more petroleum products.

Standard Oil Company

(INDIANA)

STANDARD

STANDARD SERVICE

Friend to Friend

4-H Clubs at the grass roots

Should you ever have any doubts about the future of country life in America, attend a typical 4-H Club meeting. The other night I was one of a few fortunate guests at a typical county 4-H Club annual dinner. With their fathers and mothers and leaders, the group was almost 500 strong.

Never shall I forget that fine assemblage of young people and the remarkable ability they showed in skits and songs and for their outstanding achievements. And how sorry I am that there will not be a place on the land in that county for every one of those young people when they are ready for their life's work.

There was a comforting thought, however, that those who do go to the city to spend their lives will take with them pleasant memories of interesting work and stimulating associations on the home farm.

It was gratifying in this meeting to observe the leadership made up of fathers and mothers from the farms of that county. Many were pointed out as well-to-do and prominent citizens in their locality. They were doing their level best to help the sons and daughters of neighbors in less fortunate conditions rise to the levels of which they were capable. Besides the personal gain young people gather from 4-H Club work, there is also in it a great lesson in democracy. The 4-H Clubs need a new surge of interest, both in the country and in the small towns. Too many of us have come to accept this contribution as a routine affair requiring little effort.

New sources of beef needed

As a breeding ground for a major portion of the beef consumed in America, the Western cattle country has reached its limits, in my opinion. We may expect small increases of various kinds as pressure for grazing land and the need for better range treatment develops.

I have been told by a number of Western cattlemen that they never would again attempt to carry as many animals on their ranches as they had done in the past. The protection of their grasses called for a more conservative policy. I am glad to find this evidence of responsibility among the cattlemen of the West. They have made a splendid contribution, and a vital one, to the development of our country. And furthermore, they will continue to be an extremely important segment of American agriculture. But we can't forget the rate at which our population is increasing, and the expected large demand for beef in the next 10 years.

I am convinced it is high time the American people, who should be led by American agriculture, are turning their thoughts to increased supplies of beef for the future. Shall we adopt a tariff policy toward Canada that will stimulate expansion of herds in the prairie provinces? Are there possibilities of expanding cattle production south of the Mexican border once foot-and-mouth disease is conquered? Some of my friends from Texas and the Old South insist that the next huge source of feeder cattle will logically come from the Old Southeast. They point to the development of crossbred, hot-country cattle, such as Brahmans, and the improvement of grasses and sanitation as sure signs.

I am concerned for the livestock man in the Upper Mississippi Valley and his future. Must he continue to pay higher and higher prices for feeder cattle, or will it be more economical for him to establish breeding herds, or rely on his neighbors to do so? After all, the investment in a breeding beef herd is a big one. Besides cattle, it includes adequate water supplies, fencing, cheap and adequate pastures, and some kind of shelter.

I doubt if we are going to be much interested in meat supplies overseas, where a war might immediately shut off communication lines. For the time being, at least, we have a big job surveying the situation on the continent of North America. It is time for energetic action.

Genetics for every day

The science of plant and animal breeding remains something of a mystery to the average person. Perhaps the word "genetics" adds to that sense of mystery, but it is a good word and one I think you must understand if you are going to be a farmer thru the next 20 years.

At every turn on the progressive farm today, the science of genetics assumes new importance. Time was that when a man went to the market for a new sire, he gave the subject a certain amount of thought and then dismissed it until another sire was needed. Now he has the annual problem of keeping up with the latest improvements in hybrid corn. Hybrid chickens, while not yet a sure thing, are making astonishing progress in numbers and achievement. We are in the midst of the hybrid-hog controversy. The housewife, in planting her spring garden, will owe a debt of gratitude to the plant breeder and hybridization, such as no early gardener ever dreamed would be possible. Man now is forcing the changes in plant and animal life which nature *might* have achieved—in a million years.

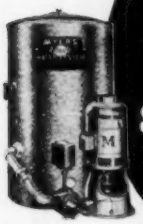
A week ago I heard the remarkable story of how the Swedes are succeeding with hybrid forest trees. Under identical conditions, the hybrid trees will produce as much pulpwood as the ordinary kind in two-thirds of the time. The Midwest, which needs so greatly a wave of tree-planting, might well interest itself in hybrid trees. The science of genetics is going to be mighty important in the life of the successful farmer in the years ahead.

A HAPPY NEW YEAR!

Kirk Fox

Copyright 1949, Liggett & Myers Tobacco Co.

"N" Series Ejecto for shallow and deep wells. Pumps up to 2200 gph.



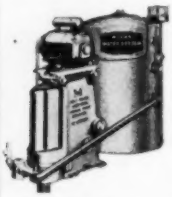
"CF" Series Ejecto for deep well service. Pumps up to 4300 gph.

Myers water service costs you less!

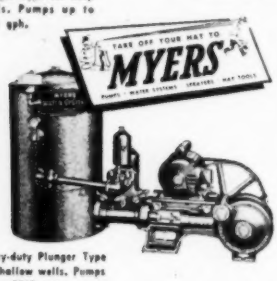
Plunger Type for shallow wells. Pumps up to 340 gph.

Five Great Myers Water Systems to fit all needs

When you buy a Myers Water System, you make real savings that insure better water service. You get famous Myers quality that assures against breakdowns and reduces expense. You get a water system that exactly fits your needs, pumps water at high efficiency and operates at low cost. Your Myers dealer will help you select the Myers Water System that will serve you best and save you money. He provides complete, expert service. Mail coupon for free catalogs.



Plunger Type for deep wells. Pumps up to 2160 gph.



Heavy-duty Plunger Type for shallow wells. Pumps up to 3900 gph.

THE F. E. MYERS & BRO. CO.
Dept. N-13, Ashland, Ohio

Send free literature on items checked below.

- ☐ Water Systems
- ☐ Power Pumps
- ☐ Hand Pumps
- ☐ Power Sprayers
- ☐ Hand Sprayers
- ☐ Hay Unloading Tools

NAME_____

TOWN_____ STATE_____

COUNTY_____ R.F.D._____

All around the house®

Tips from our readers to help you save some time and extra work

● *Miss Bess Ritter, New York*, writes, "I always keep a pair of tweezers in my sewing basket. They're very handy to catch threads when ripping seams, or to draw threads out for hemstitching."

● If you have an old-style, wooden flour bin you'd like to replace with something more sanitary, here's an idea from *Mrs. Glenn Knaus, Missouri*, who recently remodeled her kitchen. The bin shown below is a lard can, which can be scalded and sunned. There is no place in it for weevils to hide. The boxlike support is hinged to the inside of the cabinet. With the lid in place and the cabinet door closed, the flour is kept clean, and the bin is out of sight.

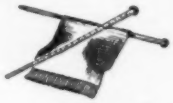
● Old phonograph-record albums are handy for holding sheets of sandpaper, according to *Norma Lair, Iowa*. The different grades of sandpaper may be seen easily thru the holes in the center.

● When you buy a sheer blouse, remove the buttons and sew a piece of fine tape down the button line on the wrong side. Sew the buttons back in place, fastening them securely to the tape. This will prevent the blouse from tearing at the buttons from undue strain, and will lengthen its life.—*Mary Porter, Pennsylvania.*

● For convalescing children (or grown-ups) still confined to bed, a cooky sheet will make an excellent writing table. It provides a firm writing surface, and the tiny edge prevents pencils and crayons from rolling away.—*Mrs. Clara Emery, Minnesota.*

● Here's a tip to help you save time when you need a piece of material from your scrap bag. Attach an extra-large safety pin to the top of your scrap bag. Every time you put a scrap of material into the bag, snip a small sample and slip it onto the safety pin. In this way you'll know exactly what the bag contains by looking thru the "pin file," instead of having to dig out the entire contents every time.—*Arlene Hornsby, Indiana.*

● Is the tape measure always getting tangled in your knitting bag? How about marking inch marks on one of your knitting needles as shown below? Some bright-red nail polish will do the trick. *Miss Myrtle Odland, Iowa*, adds that if you sew a lot, you might also want to mark off 4 or 5 inches on one of the blades of your scissors.



● For those of you who like a little variety, try adding a small amount of peanut butter to the melted butter you use on popcorn. It's delicious!—*Shirley Sharp, Wisconsin.*

● Afraid of breaking or nicking your good crystal or china when washing it? Then just line your dishpan with a folded dish towel, writes *Mrs. Lena Good, Ohio*. If you prefer it, a thick bath towel will have the same cushioning effect. Rubber mats, available in hardware and variety stores, make satisfactory cushions, also.

● Before starting to rip off a shirt collar that needs turning, mark both ends, with a pencil, where the collar should be on the collarband. This trick makes it easy to slip the turned collar in the exact place for stitching. After you've turned the collar, apply press-on tape to the frayed edge at the neckline. This will make it look better and last longer, reports *Mary J. Blunt, New York*.

● Here's a quick and easy way to make ice cream at home, and a method that takes all the arm work out of it. In the picture below, the freezer handle has been unscrewed and a ½-inch, slow-speed electric drill put on the shaft. A few minutes with the drill—held in the hands—and you have ice cream. If you have a drill which operates at a high rate of speed, use a speed reducer, warns *Mrs. Loren Thompson, Kansas*. The hand-operated ice-cream freezer is built, after all, for fairly slow speeds.

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

SPIEGEL

SERVING AMERICA SINCE 1865

NOW YOU CAN HAVE A COPY OF THIS CATALOG

Packed With Fine Quality Merchandise . . . at Saving Low Mail Order Prices!

SHOP THE SPIEGEL MAIL ORDER WAY AND Beat the High Cost of Living!

676 PAGES OF SAVINGS . . . thousands of items for practically every home and family need. All dependable quality merchandise priced low to save you money. Every item accurately pictured and described. Many shown in actual color.

5 BIG STORES IN ONE—676 PAGES arranged to make your shopping easier. There's a Fashion Store for Women . . . a Boys' and Girls' Store . . . a Men's Store . . . a Store for the Home . . . and a Hardware-Farm-Auto Store. Actually it's like having a big department store right in your own home.

SHOP WITH CONFIDENCE FROM THIS BIG CATALOG. You'll find each item exactly as pictured and described. Low Spiegel prices are plainly printed for you to see and compare. You can be sure before you buy. Every order backed by our 84-Year pledge of SATISFACTION.

HERE'S HOW TO GET YOUR CATALOG

Just pin a dollar to the coupon below and we'll send you a copy of this big catalog together with a merchandise certificate worth $1 on any Spiegel mail order of $10 or more.

HERE'S HOW WE KEEP OUR PRICES DOWN

By keeping expenses down we are able to bring you lower and lower prices on the things we sell. We keep printing and selling costs down by sending our catalogs only to our regular customers, the folks who buy from us regularly. New folks who are interested in buying from us can get a copy of the catalog by sending a dollar along with the coupon at right. This dollar will be returned in the form of a merchandise certificate when we send the catalog. This certificate is good on any Spiegel mail order of $10 or more.

PIN A DOLLAR TO THE COUPON

GET YOUR CATALOG
AND A DOLLAR MERCHANDISE CERTIFICATE

Spiegel, Inc.
Chicago 9, Illinois

I am enclosing a DOLLAR DEPOSIT. Please send me a copy of the new Spiegel Catalog. I understand my dollar will be returned in the form of a Merchandise Certificate good on any Spiegel Mail Order of $10 or more.

NAME.....

ADDRESS.....

TOWN.....STATE .....

Z-20-2

Why have a frozen Gas-line?

PUT
drout IN YOUR GAS TANK

USUALLY, you're in for car trouble when cold weather comes. Your gas-line freezes . . . your fuel system chokes up . . . your car won't start.

But all those worries are over now—*drout* prevents gas-line freeze-up on a double-your-money-back guarantee. *drout* ends fuel system starting troubles by absorbing moisture in the gas tank—and by keeping fuel system, carburetor and jets clean and free to operate.

Add this new fuel system anti-freeze next time you buy gasoline. Your garage, service station, car or implement dealer can service your car, truck or tractor—in less than thirty seconds.

GUARANTEED TO PREVENT
Gas-Line freeze-up
OR
Double-Your Money-Back

ONLY 75¢

THE CASITE CORPORATION
HASTINGS, MICHIGAN

What do you think?

Your letters to us

Who says the earth can't feed her people?

To the Editor: Permit me to comment on your stimulating article, "Who Says the Earth Can't Feed Her People?" in the November issue.

The author admits that everybody can't be fed with present population distribution and present levels of education and industrial development. He lists seven steps necessary to correct these hindrances to full production and distribution, and states that if these steps are taken, twice the earth's present population can be fed.

But what stupendous measures, these seven steps! It is very doubtful that they can be accomplished in the next 70 years, when the world's population will have doubled in size.

Furthermore, men need more than food. Until science and industry revolutionize present practices, much of the raw material for clothing and shelter will continue to be obtained from food sources.

Mr. Kellogg's own figures and predictions don't promise much hope for food for all except for a possible brief period—that is, unless population increase is halted by the year 2018. While working for the accomplishment of his seven steps, isn't it high time to be scared into popularizing birth control? Our own grandchildren may live to share the scarcities of the 2020's!

—*Mrs. Morris Nielson, Atchison, Kansas*

To the Editor: The November lead article, "Who Says the Earth Can't Feed Her People?" is tops. The many "sob-sister" articles on soil conservation that have appeared lately have slightly nauseated me.

We don't have to appeal to farmers on a sentimental, self-sacrificing basis to do good jobs of producing and conserving. All we need to do is to show them the way, and give them the results they can expect. This method may be a little slow but it is sure, and I've never been impressed with any other way.

—*H. M. Dail, Columbia, Missouri*

Consolidated schools extravagant

To the Editor: Let me express my views on our disgraceful farm schools. The underlying difficulty is the fast-growing, consolidated-school setup. It is not only expensive to the taxpayers, but is actually harmful to our children and to the future of agriculture.

Farm children are transported long distances to school by bus. They leave early and return late; the farm home has become for them merely a place to sleep. All day they are in an environment completely alien to the farm. Agriculture, our basic industry, is successfully carried on only by the folks who have been reared on farms.

This year, the taxes for consolidated schools will far exceed the most extravagant necessities we can imagine for our little country schools! Why not take the money which the consolidated school and bus cost and use it to improve these small schools? By so doing, we'll keep the children close to the farm, and have a more efficient educational system.

For one thing, why not spend our taxes on adequate training for the country schoolteacher? Make it possible for more people to go to a teachers college. A good, well-trained teacher in a farm school will accomplish as much or more than one in a consolidated school.

Then, why not provide funds to supply these schools with up-to-date textbooks, adequate equipment, and proper repair for the buildings?

One more thing, why not have superintendents chosen by civil examination? Now, anyone who can get the most votes can be a county superintendent. When the future of the world is involved, unhealthy politics should be kept out!

—*A former farm schoolteacher*

Pro and con on new format

To the Editor: I don't care for the new format of *Successful Farming*. Since I have no interest in the women's features, I don't like them marching thru the men's section of the magazine.

My wife had the same complaint. We both clip helpful articles for filing. This new setup is going to interfere because recipes and furnishings articles appear on the back of livestock and crops features. Change it back!

—*Robert Bice, New Milford, Ohio*

To the Editor: Successful Farming blossomed into a beauty of a magazine from cover to cover with the November issue. I liked the idea of bringing to the front homemaking articles which had been confined to the back of the book.

Also, since those real-life covers are a decidedly distinctive feature, it seems very pertinent to point up the story of the cover as you did in November.

—*Mrs. D. J. Faulconer, Bartlesville, Oklahoma*

Electoral college

To the Editor: I have read with a great deal of interest the article, "You Can't Vote for President," by Gordon Sabine in the November issue.

This is exactly the kind of an article I have been hoping would receive wide circulation. It is a subject the public is completely ignorant on, and one which is vitally important to the citizens of this country.

—*James H. Windsor, Des Moines, Iowa*

Likes historical articles

To the Editor: I was delighted to read the entertaining article on county courthouse wars in your November issue. Can't we have more? There are many fascinating tales to be told of the history of our Cornbelt.

—*B. V. Winebar, New London, Ohio*

"I taxi my family 25 miles a day," says Mrs. Robert E. Prescott Jr. of Quincy, Mass., "so you can guess why I like my new Ford. It feels so safe—something a mother appreciates." *(That's because our new "Life-guard" body combined with the 5-cross member, box-section frame is actually 59% more rigid!)*

"My Ford's a fine storeroom for the various metal products I carry," says Mr. Wright Yount, Detroit, Mich. "I'm sold on the extra gas mileage, too!" *(That extra gas saving—up to 10%—results from improvements such as the new "Deep Breath" Manifolding and new "Equa-Flo" Cooling.)*

OUT FRONT with All America ...'49 FORD

The Fine Car of its Field!

"With some 50,000 head of cattle on approximately 900,000 acres to look after, the '49 Ford is a welcome addition to the Ford family. I can drive mine all day without fatigue," says Mr. Richard M. Kleberg, Jr. of King Ranch, Kingsville, Texas. *(New "Hydra-Coil" Front Springs and "Para-Flex" Rear Springs are what make Ford's new "Mid Ship" Ride so smooth.)*

White side wall tires optional at extra cost.

"The lumbering industry," says Mrs. J. Trotochau of Seattle, Wash., "means you cover miles and miles every single day. No car could be easier to drive than my new '49 Ford." *(A few reasons for that, Mrs. Trotochau, are Ford's new "Arrow-Straight" Steering and new "Magic Action" King-Size Brakes.)*

There's a NEW Ford in your future

NOW *these 3 Farmalls*

RESPOND TO THE MAGIC OF

FARMALL Touch-Control

FARMALL CUB
. . . complete mechanization for small farms, additional power for large farms.

FARMALL SUPER-A
with Farmall Touch-Control . . . for the diversified farm of 40 to 80 acres.

FARMALL C
with Farmall Touch-Control simplifies crop-production on 80 to 120 acres.

You sit relaxed on the comfortable seat—and "tell" the implement with your finger what you want to do. Like magic, Farmall Touch-Control gives you *complete implement control.*

Raising, lowering and adjusting of implements is completely effortless. Just drop a finger to a pencil-size lever and command the responsive, two-way hydraulic power of Farmall Touch-Control.

See Farmall Touch-Control at work! Raise your plow over a grassed waterway at regular speed. Drop the plow without missing a foot of tillable land. In planting or cultivating, even in point rows, you can go full speed right up to the ends of the rows, because Farmall Touch-Control instantly raises the implement from the ground. Turn without time-loss. Start back without leaving "ragged" edges.

Your Farmall Cub—your Farmall Super-A—your Farmall C—each has its place as a single tractor on many farms and as an additional tractor on other farms. Each has its own line of matched, direct-connected, quick-change implements that team with Farmall Touch-Control.

Your Harvester dealer has a special folder about Farmall Touch-Control. Ask him for one, or send direct to us.

International Harvester Company
Chicago 1, Illinois

This modern building symbolizes the expanded service facilities of IH dealers throughout America.

Listen to James Melton on "Harvest of Stars" every Wednesday night over CBS.

INTERNATIONAL HARVESTER

What's ahead for farming

By W. I. Myers. *Dean of the College of Agriculture, Cornell, and former head of Cornell's department of agricultural economics. For five years he was governor of the Farm Credit Administration in the debt-ridden years of the early 1930's. He is well known in government, business, and farm circles.*

THE economic forecasts have called for the inflationary bubble to burst. That's been going on for two years straight, but it hasn't happened yet.

There was one important reason the crystal-gazers were wrong in 1947. It was the simple fact that more food and other things than anyone expected went from American farms and factories to all parts of the world.

Then in 1948, altho exports declined, rearmament, construction of homes and factories, and tax reduction took up the slack. The result of all this has been a continuation of over-employment, feverish business activity—in short, a boom.

All-time peaks have been reached in farm prices, wholesale prices, employment, wage payments, and national income. But you know this can't last forever. Sooner or later, possibly within the next year or two—barring war—we will have a decline in prices and business activity until stability is attained at a somewhat lower level.

With the increasing tempo of rearmament and the continuation of European aid to take up any slack that might develop, however, a decline of any consequence in the general price level and business activity is unlikely at least during the first half of 1949.

But for the year ahead, most farmers should expect somewhat lower net incomes because farm costs will be higher than they have been in relation to the prices received. Feed will be cheaper, but other costs, including labor, machinery, power, and building will creep upward.

SUGGESTIONS FOR 1949

Debts and savings Keep debts at a safe level and build reserves in United States savings bonds. Debts are easier to pay off now than later, so put mortgages that can't be paid off now on a long-term basis at present low-interest rates.

Laborsavers Use more laborsaving methods. Farm labor still will be tight and wages high—not much change expected unless rearmament draws more men into plants and the draft calls increase.

Buying machinery Before buying machinery, study carefully your needs, costs, and savings. Be careful about buying expensive machines unless they will pay for themselves quickly. Continued exports, a short steel supply, and high wages are likely to hike prices a little more and curtail supplies of farm machinery.

Remodeling If you're financially able, you may wish to modernize your farm home and other buildings, but be cautious about extensive new building because of extremely high costs. You may expect the supply of cement to continue short, but there should be some improvement both in quality and quantity of most farm-building materials.

Buying farmland Be cautious about buying farmland at 1949 prices, especially if you have to go heavily into debt. Moreover, this is not a good time for beginners to start farming on credit. It is safer if they work for wages, or rent until readjustment is over and the future clearer.

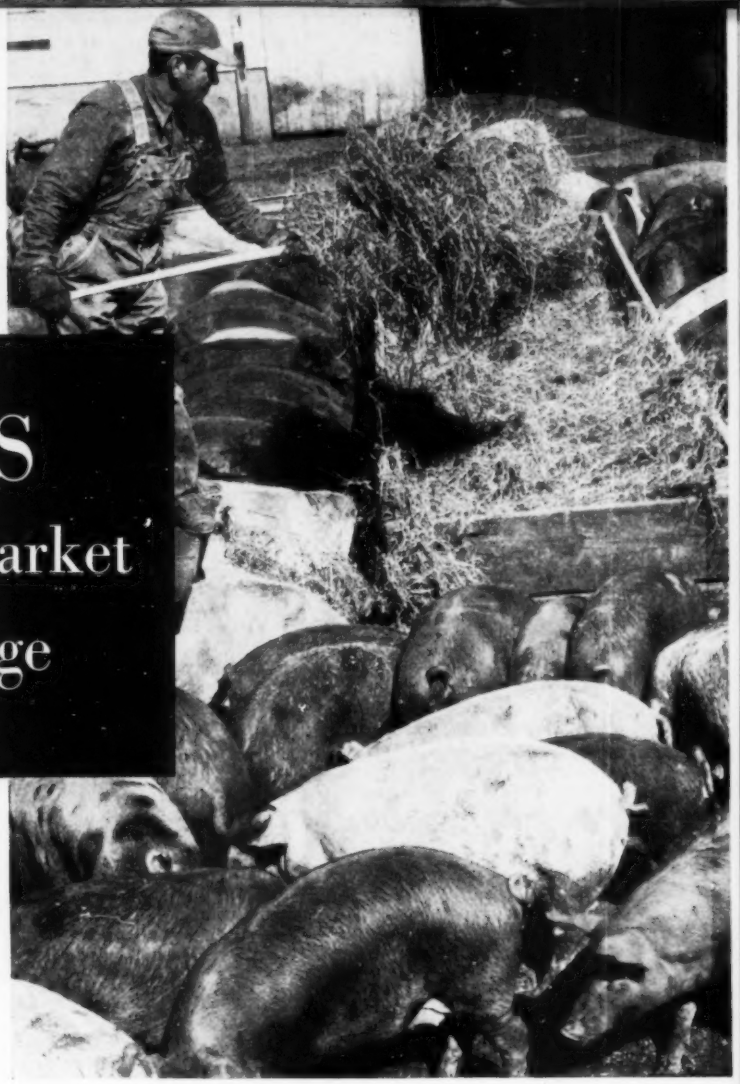
Order fertilizer Order fertilizers now if you haven't already done so, and apply them according to soil needs.

Best methods Make full use of research on problems of agriculture and farm life thru the Extension Service, farm magazines, and farm organizations. Use of improved varieties of crops, new methods of insect and disease control, better breeding and feeding of livestock, soil-erosion control, and more efficient marketing and purchasing will pay dividends.

Now, let's briefly list the outlook for farm commodities:

Dairy It will pay to keep all your cows that are fairly good producers, and grain-feed them liberally for high milk production. Milk and butterfat feed ratios will be more favorable because of lower feed prices. Demand for milk and dairy products is not expected to weaken to any great extent and prices are expected to average about the same as in 1948.

Poultry Farmers probably will order more chicks early and feed heavily. Here again the chicken-feed, egg-feed, and turkey-feed ratios ahead look better than a year ago. Farm prices of eggs may be slightly higher during the first half of 1949, and lower the rest of the year, tending to make the average price about the same as in 1948. Because of lower feed prices and record chicken and turkey prices during 1948, farmers are certain to hike poultry numbers this year. This may result in lower farm prices the latter part of 1949. [*Turn to page 104*



HOGS
a bigger market for forage

Don Frakes finds high-quality forage can be 26 percent of hog's rations, compared with national average of only 5 percent

IN THE conventional Cornbelt tradition, hogs have meant corn, and corn has spelled soil depletion and erosion. The more rolling the land, the more critical the problem.

Don Frakes, Wright County, Iowa, has experimented with hogs and forages on his own farm, which is Class I land. Observations have led Frakes to the conclusion that conservation and improvement of our soil resources are intimately associated with the management and feeding program of livestock.

Hogs could eat more hay. The feed consumed by hogs on a national basis shows that only 5 percent of their feed nutrients come from forages and 95 percent from grains. As for the nation as a whole, hogs are consuming about 40 percent of the total corn produced. That wouldn't indicate that hogs could rate very high as consumers of pasturage and hay, but Frakes had greater hopes.

With the apparent acute hog soil problem, as Frakes was able to comprehend it, he started to emphasize quality forages in his 1947 fall pig enterprise. He began with the brood sows just before pregnancy. His purpose was to find the value of large quantities of high-quality forage in hog production and the consequent saving of grains.

Any accomplishment in this direction would help develop a better soil fertility and land-use program, with larger ratios of sod crops to row crops.

How gilts handled. On April 15, 1947, 51 head of Duroc-Chester White crossed gilts were sorted from the 1946 fall pigs. The gilts were divided into 3 pens of 17 head each. Their ration before sorting consisted of shelled corn, protein, and mineral—all self-fed.

After sorting, the gilts were taken off corn and protein and put on a half feed of oats for four days. By April 23, the oats were increased to a full feed. The gilts also were put on a half feed of protein, and this was increased to a full feed by April 25 (2 pounds per head daily).

Gilts get no grain. The boars, including a Minnesota No. 1, Duroc, and Poland China, were turned in April 25. On May 15, the gilts were taken to high-quality red clover-timothy pasture. All feed grains were removed from the gilts when they went on pas-

Photographs by Marion Pease

Gently rolling land characterizes the Frakes farm, in Wright County, Iowa, where this practical farm test was conducted. Yet, more forage and less corn will be fed to hogs in future

Bacon produced by hogs fed high percentage of forage scored excellent from standpoint of uniformity and texture; superior with respect to marbling; and all right for firmness

← Don Frakes found that brome-alfalfa hay, on a dry-weight basis, at times could make up nearly half the ration. He prefers long hay over chopped, for chewing helps digestion

By Maurice E. Heath

ture until July 5, a period of 51 days.

The meadow had been fertilized with 250 pounds of 0-20-10 per acre at time of seeding. The gilts had access to mineral while on pasture, but consumed less than 100 pounds during the entire period of pregnancy. The condition of the gilts during the 51-day grainless period remained excellent, with some gain in weight being observed.

Starts grain feeding. On July 5, Frakes started to feed whole oats of very good quality and protein (45 percent) to the gilts. The oats was increased over a week's time until the gilts were on full feed (self-feeder), and the protein was increased until the gilts consumed 100 pounds daily. This ration continued until a week before farrowing, at which time the protein was cut in half.

Gilts farrow, go to grass. Provided with individual pens in a shady grove, 36 gilts farrowed the last week in August and the first week in September. On September 4, the earliest litters were moved into brome-alfalfa pasture. By the end of a 2-week period all 36 litters were on brome-alfalfa.

The remaining 14 gilts farrowed in the same grove about three weeks later. They were run on a red clover-timothy pasture of fair quality. One of the 51 gilts failed to get with pig.

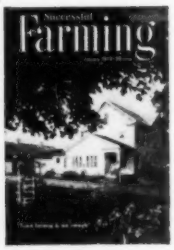
Following farrowing the gilts were self-fed a ration of whole oats, and the pigs were hand-fed hulled oats in creeps. Protein was hand-fed.

On November 11, the 263 pigs farrowed by the 36 gilts were brought in from pasture to the concrete feeding floor. On November 25, the 103 pigs from the 14 sows were put on the feeding floor. These 103 pigs were fed on a limited ration of oats and corn the first 2½ months because of sickness that developed following vaccination. It is believed that the sickness was the result of improper time of vaccinating.

Start hay feeding. Green, leafy, second-cutting brome-alfalfa hay was fed in the bunk to the large lot of pigs, beginning November 23. It took several days before the pigs became accustomed to the hay and reached their full consumption.

It was observed that at the end of the first four weeks of hay feeding, one manure-spreader [*Turn to page 91*

"Good farming is not enough"



. . . say the Spaces—cover subjects this month—about their family's record of 144 years on the same 160 acres. Their interesting argument for adding good living to the "formula" is reported by William Ward

With Millbrook's buildings in the background, Ralph Space makes a hurry-up repair on the binder reel

THERE have been members of the Space and West families around the farming community of Dryden, New York, for quite some time. Since 1790 to be exact. And what's that got to do with you?

Well, we're going to visit Mr. and Mrs. Ralph Space and their son, Ronald, now. And we're going to try to find out not only what keeps a family farming in one community for 159 years, but also how one farm of 160 upstate acres can support a family bounteously and keep them contented for 144 of those years. Maybe you can use a couple of the answers on your place, too.

AS YOU have guessed from the dates and figures above, Edward Griswold (Ralph's great, great great-grandfather) and John West (Mrs. Space's great, great, great) came into the territory as discharged soldiers of the American Revolution and claimed their share of the land granted by an appreciative New York legislature.

Of course, the last traces of the first Space log cabin have long since gone, but Ralph and Zetta did remodel an old mill that was built about 100 years ago by Ralph's maternal grandfather. From that old mill [*Turn to page 110*

Zetta (Mrs. Space) plays, Ralph turns the music, Ronald listens, for a typical Space family "time off" in the pleasant, heirloom living room

Photographs by Marion Pease

Eat, drink, and be slender

FOR YOUR GOOD HEALTH

FOR YOUR GOOD LOOKS

FOR A LONGER LIFE

A SLIM look of well being in either a man or woman needn't mean a starvation diet. You can exchange a 50-inch waistline for a more handsome one just by the wise calculation of things called calories.

A calorie is the measure of the fattening tendencies of food. It sounds technical, but it isn't. We have prepared a list of foods with the amount of calories each contains, so your job merely consists of selecting foods to make the proper total before you eat. A longer and healthier life is yours for the doing.

First, Mr. and Mrs. Farmer, here's the way to find out how many calories you need each day to lead your active life. Estimate the ideal weight for your height and build. Most weight charts are for the *average* person. If you're large-boned, add 10 to 15 percent. If you're small-boned, estimate a little under the weight given on the chart.

Now multiply your ideal weight by 15. This result is the number of calories you need each day. The food eaten in excess of what is actually needed turns into fat.

Next, reduce the answer by one-third. The result is the calorie quota for each day that will take off your excess poundage safely. For example, if you weigh 190, but your ideal weight is 140, here's how you figure:

140 x 15 = 2,100 calories
One-third of 2,100 = 700 calories
2,100 – 700 = 1,400 calories

The last figure is the reducing quota for each day using 140 as ideal weight. Use your own ideal weight and calculate your reducing quota in the same way.

Don't expect miracles in the first few days. By the end of two weeks, however, if a few pounds haven't disappeared, cut your daily calories a few more until you're losing one or two pounds a week.

By planning meals carefully, you'll find you can leave the table feeling satisfied, as well as healthier. Fill up on low-calorie foods for bulk. Include each of the following daily, for health:

Milk . . . . . **1 pint**
Vegetables . . **1 serving of yellow or leafy green**
1 serving of another
1 serving of potatoes
Fruits . . . . . **1 serving of tomato or citrus fruit**
Eggs **1**
Meat . . . . . **1 serving**
Whole-grain cereals
1 or 2 servings

When you've arrived at your ideal weight it's time to stop. Start increasing the calories until the scales say you're holding your own. No more, no less. It's trite but true, an ounce of prevention is worth a pound of cure, especially when it comes to bulges!

One more word of important advice, however. If you're overweight for some other reason than just too much good, country cooking, see your doctor. He's the one to advise you as to treatment in your particular case.

Calorie chart

BEVERAGES

Calories	
85	Buttermilk, 1 cup
120	Cocoa, ¾ cup
0	Coffee
25	Coffee cream, 1 tablespoon
75	Ginger ale, 1 glass (1 cup)
85	Milk, skim, 1 cup
165	Milk, whole, 1 cup
0	Tea

BREADS

Calories	
100	Biscuits, baking powder, 2 small
100	Boston brown bread, 1 slice
100	Bran muffins, 2 small
200	Corn bread, 2-inch cube
55	Cracked-wheat bread, 1 slice
40	Cracker, graham, 1
15	Cracker, soda, 1
235	French toast, 1 slice
100	Griddle cake, 1
25	Melba toast, reducer's delight, 1 slice
100	Roll, Parker House
350	Roll, sweet, frosted
75	Rye bread, 1 slice
225	Waffle, 1
60	White bread, 1 slice
100	White bread, raisin, 1 slice
75	Whole-wheat bread, 1 slice

BUTTER, CHEESE, AND EGGS

Calories	
80	American cheese, ½"x1"x2" slice
110	Butter, 1 tablespoon or 1 square
105	Egg, fried, 1
140	Egg, scrambled, 1
75	Egg, soft- or hard-cooked, or poached, 1

[*Turn to page 101*

wash waste

Wasted acres

We all want more land. Yet 9 out of 10 Cornbelt farms have idle or partly used acres. Putting even one back to work is just like finding money

By Jim Roe

AN ACRE of good farmland is worth anywhere from $250 to $500. Rightly farmed, it will produce yearly crops that are worth from $50 to $200 and on up.

Nearly everybody thinks he's such a good farmer that his talents really should be spread over more acres. Each of us knows he would be a huge farming success, if he only had a few more acres of ground.

Yet, in spite of all this hunger for land, hundreds of thousands of acres of the valuable stuff lie idle year after year, all thru the richest areas of the Cornbelt.

There's probably some on your farm. You have your money invested in it. You pay taxes on it. You often go to great effort to farm around it.

Some is easy to see, like the awe-

Poole

wet spot waste

winding ditch waste

Photographs by Jim Roe

some erosion above. Some is hidden, unless you look for it. And some you do not see simply because you've become accustomed to it.

I walked over an Indiana farm where a tiling machine and dragline were rescuing 35 acres of 75-bushel cornland. Land that hadn't been farmed for 50 years. No one had thought of the possibility of farming it again, until a professional farm manager took over the farm, and was horrified at the waste of good land. From the air, I've spotted thousands of drainage ditches like that.

I've walked thru dozens of cornfields early in June, to count how many hills of corn were missing per 100 steps. The kernel of corn your faulty planter doesn't drop won't feed many cattle next winter.

Every April, it's a rare Cornbelt farm that doesn't support at least one wet spot. You either stay off the whole field until it dries, or sneak up to the edge and turn around—hoping the disc doesn't mire down. Many of these wet spots keep 5 or 10 acres soggy—and many go into beans or buckwheat when you'd planned them for corn.

Bigger tile, simple crushed-stone catch basins, or shallow grassed ditches, would turn most of these part-time lakes back into respectable, profitable corn ground.

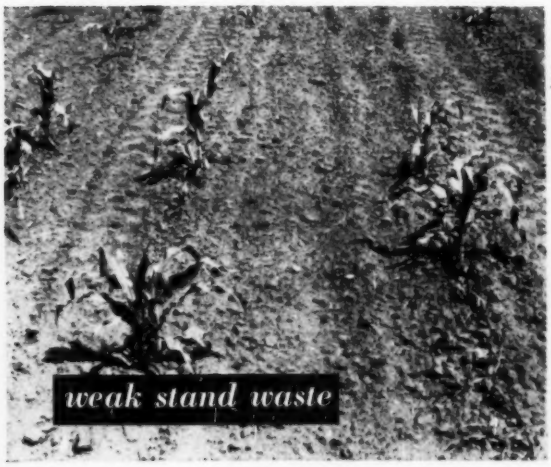
Weeds, stones, brush. That's the total production of lots of pastureland.

Why? Well, partly because we use for pasture the land we think is good for nothing else. Partly, because we think all we should have to do to a pasture is make sure the fence is tight.

What we never think of is the fact that good pastureland, well managed, will bring in more profit than good corn ground. In Illinois tests, bromegrass and bluegrass pastures, mixed with clover, yielded $95 worth of beef to the acre. And the steers did all the harvesting!

Low fertility and poor soil structure are harder to see. But they're probably the biggest cause of wasted acres. Until you test your soil for its fertilizer needs, and make sure it's in good tilth, you never know that your 50-bushel land actually might be capable of giving you 75.

You are a manufacturer of food. Your farm is the factory, each acre a machine. Think for a moment. Are there any idle ones you could put back to work? END



weak stand waste

weedy pasture waste

Mrs. Van Camp, a Nebraska home demonstration agent, campaigns for kitchens that . . .

Cook as good as they look

Above: Daughter Sharon is chief helper in George Segard's compact kitchen. Note convenient "U" arrangement, space economy

Right: "Cut-out" shelves above mixing center in Segard kitchen make it easy to spot desired articles

Below: Mrs. Segard's cabinets, built to eliminate waste space, include half-shelves and filing partitions

By Tracy L. Van Camp

THIS is a story of what one group of farm women has done to make their 101 kitchen duties lighter and more pleasant.

It all started one afternoon two years ago at a kitchen clinic, soon after I had taken over the duties as Home Demonstration Agent for Buffalo County, Nebraska. The 10 homemakers present at this clinic wanted help in kitchen arrangement. Two were building new kitchens. The remainder planned to remodel, and had drawn their kitchens to scale, indicating the location of equipment.

We began by studying the three basic arrangements of a functional kitchen, the "U," "L," and corridor. Work in a "U" arrangement is centered on three sides, the refrigerator on the right, the sink in the center, and the range on the left. The "L" kitchen has work centers on one side and at the end of the kitchen. The corridor type is planned for the long, narrow room, with the work centered on either side. Each woman decided which arrangement would best fit her space and needs.

That first clinic started the ball rolling; other women in the county became interested and joined the [*Turn to page 54*

Below: For little over $300, the Ed Smallcombs remodeled their kitchen in an "L" arrangement. A door was removed so window and sink could be installed. Cabinets were made from used lumber

Color photograph by Suter

Above: The snack bar, which was built in the Dale Stubblefields' remodeled kitchen, is a favorite meeting place for college friends of daughter Jeanne (using popper). Kitchen was enlarged by removing partition between old kitchen and pantry. Steel cabinets were specially fitted to fill the old kitchen wall area

Left: Mrs. Stubblefield finds her kitchen-dining combination convenient. In compartment at north side of bar, in reach of the table, she stores linens, silver, bread and dry cereals; shelves at end of bar house her waffle iron, coffee maker, toaster, and pitchers for daily use

More kitchens, page 54 →

Aerial cultivator

Photographs by E. P. Sylwester, Richard W. Hufnagle, Dr. R. F. Fuelleman

Trailer

Mounted

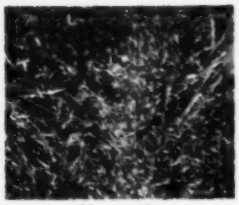
Pull cart

Variety of equipment gets good results shown below

Strips missed by sprayer

Thistles

Oats, treated



Untreated

Misuse can cause the troubles below

Clover stands sometimes suffer

Overdose on wheat

Soybeans are sensitive

NOW

weedless grain and pastures

Here's what happened when farmers sprayed big acreages of grain and pastureland. They're even killing weeds out of legume seedings!

By H. J. Collman

TIME was, you could blame weedy grainfields on the previous tenant, the weather, or that rascal who sold you uncleaned seed. Brush and thistles in the pasture could be explained away by mentioning the wind, birds, and the varied disadvantages of wielding a scythe in July.

Now, 2,4-D has taken the steam out of all those stories. At the same time, it has made it easy for you to have your fields so clean that no excuses are needed. This weed killer still is relatively new. Yet thousands of farmers applied it to millions of acres of grains and pastures this past year.

Their success tells us we need no longer tolerate weeds. Even in grainfields with a legume seeding, 2,4-D is an ace in the hole, ready to clean out large or small outbreaks of yield-cutting, combine-clogging weeds. This is something new.

Russell Fairall, in Licking County, Ohio, killed thistles out of a Ladino-clover seeding, without hurting the clover. Near Webster City, Iowa, a farmer set the volume low on his sprayer, and sprayed 40 acres of grain which was seeded to red clover. He reported but little damage to the valuable stand of clover.

One trick which seems to help—when spraying a legume-seeded field—is to let the weeds grow to a fair size before spraying. Then, the weeds catch most of the spray, thus protecting the seeding. Combined with a light 2,4-D application, this has given pretty good results for farmers.

Rates of application vary with the crop, and with the toughness of the weeds you're out to kill.

In small grains, with normal weeds such as mustard, ragweed, and cocklebur, ¼ pound of 2,4-D in the ester form, or ½ pound in the amine form, usually does the job. If the weeds are of a little more rugged breed, such as thistles, creeping jenny, or wild lettuce, you'll probably want to double that rate.

All these rates are in terms of *pounds of 2,4-D per acre*. Different commercial formulations contain different percentages of 2,4-D. Because the chemical itself is what does the killing, you'd best fish a pencil out of your pocket and figure how many gallons of the diluted material you're going to need to get the right amount of actual 2,4-D.

Best time to spray grains is when the crop stands from 6" to 10" high. You may have to wait a little longer than this if you want the weeds to grow high enough to act as an umbrella for the seeding.

Temper this a little according to how good a legume stand you have, and what it is. If you have an exceptionally good stand, maybe you can afford to lose a little. If the stand is pretty poor, and the weeds bad, it might pay you better to kill out the weeds, even if you lose the legume.

Alfalfa seems to be the most sensitive, with sweet clover a little more tolerant, and red clover still a little better able to take care of itself.

Weed Specialist E. P. Sylwester reports this Iowa State College test, which sheds a little light on the problem of how to handle seedings. Using the ester form of 2,4-D, an eighth of a pound gave fair weed control, and did little harm to the seeding. A fourth of a pound gave very good weed control, but did a fair amount of damage to the seeding. Half a pound of 2,4-D left absolutely no weeds, but it left no seeding, either. And a pound of the acid to the acre injured the small grain crop.

But remember this: These results will vary according to the weather, and the stage of growth of the plants. Always be careful when using 2,4-D on legumes. Keep your rates as low as you can, and be careful of overlapping swaths when you spray.

The use of 2,4-D on flax still is something of a question mark. Under some weather and growth conditions, flax is as susceptible to 2,4-D as are the weeds. And different varieties show different tolerances.

But the farmers who gambled—and sprayed flax this past season—won their bets. When sprayed, some fields were so weedy you couldn't see the flax. It was a case of losing the crop to weeds, or taking a chance on 2,4-D. A lot of those fields kicked out 15 to 20 bushels of flax to the acre!

In any event, you'll want to hold down the volume of 2,4-D on flax. For normally susceptible weeds, use not over ⅛ pound of 2,4-D in the ester form per acre, or [*Turn to page 113*

From ready mixes

By Martha Quinn

TO YOUR table come these delectable desserts made "jiffy quick" from a box! Each time you make them you are sure to have the same good results, because the mixes you start with are precision-measured.

Look at the tasty dishes in the picture at the right. All came from packaged fudge, ice cream, and gingerbread mixes. Try the recipes below; then make some creations of your own. You'll agree that it's fun and easy to let packaged mixes help you to better and speedier meals.

Chocolate Fudge-Whipped Cream Chiffon Pie

Makes one 8-inch pie

Beat.....**3 egg yolks** until light
Add.....**½ cup water**
½ envelope unflavored gelatine (1½ teaspoons)
½ package commercial, quick chocolate fudge mix
Beat until smooth.
Bring to boil, stirring constantly.
Remove from heat; cool mixture thoroly.
Beat.....**3 egg whites** with
¼ teaspoon salt
1 teaspoon vanilla extract
until stiff but not dry
Fold whites carefully into cooled chocolate mixture.
Pour into baked, 8-inch pie shell.
Chill.
Spread with **whipped cream**
Decorate the top with shaved **semi-sweet chocolate.**

Quick-Mix Chocolate Brownies

Makes two 8-inch-square pans or one 9- by 13-inch pan of brownies

Sift together:
1¼ cups sifted flour
1 teaspoon baking powder
⅛ teaspoon salt
Add.....**1 package commercial, quick chocolate fudge mix**
Stir in...**2 eggs,** well beaten
½ cup melted butter
3 tablespoons water
1 teaspoon vanilla extract
1 cup chopped pecans
½ cup raisins (optional)
Mix thoroly.
Pour into two 8-inch buttered pans.
Bake in moderate oven (350°) 30 minutes.
Cut in squares or finger lengths.
Sprinkle..**confectioners' sugar** on top.

Toasted-Almond Fudge Frosting

Frosts one 8-inch, two-layer cake

Make frosting with
1 package commercial, quick chocolate fudge mix
Follow exact directions given on package of the mix you use.
Frost cake between layers, on sides and top.
Sprinkle..**¾ cup slivered, toasted almonds** on top
Variation: Strong or double-strength coffee may be used in place of the regular liquid called for in recipe.

Peanut Brittle-Ice Cream Croquette Sundaes

Prepare..**vanilla ice cream,** using **1 package commercial, vanilla ice-cream mix**
Fold in...**¾ cup crushed peanut brittle**
Freeze according to directions.
Shape ice cream into cone-shaped croquettes or balls.
Roll until coated in **toasted coconut**
Arrange two croquettes in each serving dish.
Top with **hot** or **cold fudge sauce** and **maraschino cherries.**

Tutti-Frutti Baked Alaska

Prepare..**1 narrow, refrigerator tray of ice cream** using
1 package commercial, vanilla ice-cream mix
Before pouring ice cream into tray, fold in
½ cup chopped red and green maraschino cherries
¼ cup crushed pineapple
¼ cup finely chopped nuts
Freeze according to directions.
Cut.....**one 5- by 9-inch angel-food or yellow-sponge loaf cake** into two layers

[*Turn to page 100*

Fudge

Chocolate Fudge-Whipped Cream Chiffon Pie

Quick-Mix Chocolate Brownies

Toasted-Almond Fudge Frosting

Ice Cream

Peanut Brittle-Ice Cream Sundaes

Tutti-Frutti Baked Alaska

Double-Rich Stick-Candy Milk Shakes

Gingerbread

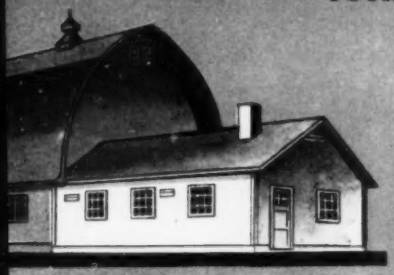
Gingerbread Waffle-Ice Cream Sundae

Cream-Filled Gingerbread Dessert

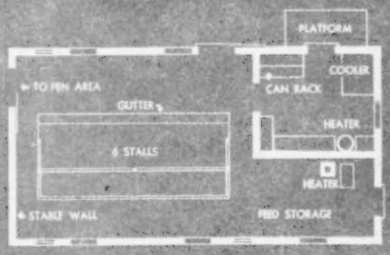
Frosted Gingerbread Boys

Photograph by Photography, Inc.

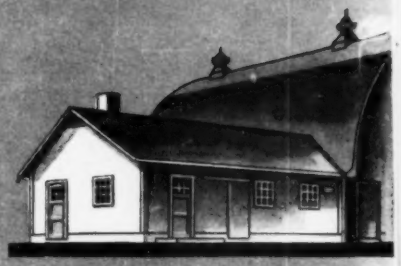
FOUR ARRANGEMENTS—ONE BASIC PLAN



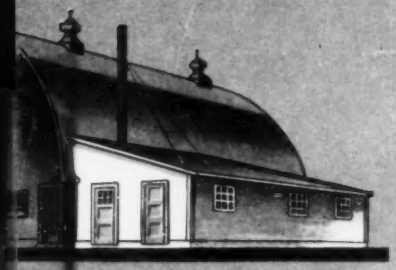
END TO END



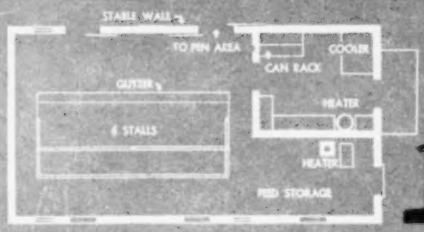
Floor plan above exactly matches drawing at left where barn and milking room run end to end. The hookup above right—end to side—calls for turning the floor plan itself side for side and then end for end



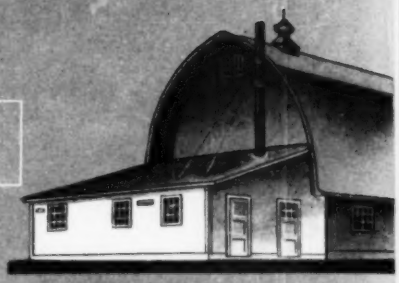
END TO SIDE



SIDE TO SIDE



For side to side, above left, floor plan above must be flipped end for end and the heater stove piped across milkhouse to the stack. Same piping for side-to-end setup, which otherwise matches plan "as is"



SIDE TO END

Successful Farming presents a laborsaving, low-cost

milking room

Designed by A. H. De Golyer
Agricultural Engineer

THE pen-stable and milking-room system of keeping dairy cows offers a chance to modernize a dairy business at a low cash outlay. Or to change over from some other kind of farming to dairying both quickly and easily.

This is true, of course, only where your present buildings can be adapted. Often with an outlay of from $2,000 to $3,000, an operator can fix over a barn, add a milking room such as the one shown here, and be ready for sanitary production of milk right away. Compare the estimated cost above with from two to eight times as much to remodel or build new a conventional, stanchion barn.

If we face the facts, we'll have to admit, tho, that not all operators have found pen stabling a bed of roses. To be successful, the setup has to be planned so that all operations can be done quickly, so that laborsaving equipment can be used, and so that the milking room and the milkhouse within or next to that milking room can be easily cleaned—and kept sanitary.

So much for the general system of the run or free-area barn. Now let's consider a milking room and milkhouse to match it. Economy of construction, arrangement to save time and steps adaptable to fit many situations, and comfort for the operator should be provided in a milking-room plan. The milking room shown on this page has an arrangement that meets these requirements. In addition, it offers you many little items that make for [*Turn to page 120*

How to get plans: A set of four plan sheets (each 17 by 23 inches), plus a list of the materials needed to build this milking room, may be had for only $1. From your local lumber dealer, if he is a cooperator in our Building Program, or postpaid from this magazine. When ordering direct, please send $1 to Successful Farming, 2001 Meredith Building, Des Moines 3, Iowa. And don't forget to mention the number of this plan—49S01.

Photograph by Richard W. Hufnagle

It's not the cattle—it's you

All kinds can be moneymakers. Farm visits in four states show that many cattle feeders handle the same kind consistently, and have good reasons for doing so

By C. E. Hughes

HARRY MUIR of Faribault County, Minnesota, has fed cattle for 32 years, and he stoutly affirms that calves are his dish. Right in the same county, Fred Fenske plunks for Western branded cows weighing 800 to 950 pounds. And about seven or eight others in this article all have their systems which they follow pretty consistently, for reasons they believe to be sound.

Whether you agree or not, you might be interested in knowing why one cattle feeder handles his operations one way, while his neighbor across the road, with the same type of land and markets, may have an entirely different system of management.

Let's get back to Harry Muir for a minute. While he's an old hand in the cattle-feeding business, he still takes a conservative view and casts his lot with calves because of the lower risk involved.

Harry looks at it this way: He pays twice as much for a 750-pound yearling as for a 375-pound calf, but gets more gain per pound of feed from the calf. Two-year-old cattle take about $1\frac{1}{2}$ times as much feed per pound of gain as calves; yearlings eat about $1\frac{1}{4}$ times as much.

THEN there's another thing that Muir likes about calves—if they're bought weighing about 375 and sold at, say, 750, he doesn't stand the chance of losing so much on a down market because he's paid cash for only half the selling weight. Furthermore, when the market isn't right, he can hold on and keep feeding calves at a lower cost per pound of gain. It's a flexible setup, for he can limit the feed or "whoop it to 'em."

But Fred Fenske looks at cattle feeding in a different way. He feeds for a short turn, rather than holding them for a year as Harry Muir does. For this purpose, [*Turn to page 68*

Oven done!

Four carefree meals that cook, roast, and bake while you're out of the kitchen. They save you both time and money

By Carolyn Schenk

45-minute oven meal 350°

De Luxe Apple Dumplings
Quick-Baked Beans With Bacon
Date-Bran Bread
Cabbage Creole

1-hour oven meal 350°

Rich Pecan Pie
Pineapple Glazed Ham Loaf
Buttered Parsley Loaf
Mexican Stuffed Peppers

OVEN done! Delicious, wholesome, economical meals that trim kitchen time to a minimum.

It's as easy as this. You prepare your favorite foods, or the ones we've suggested on this page and on pages 78 thru 81. Choose foods which will cook at the same temperature and approximately the same length of time. Select utensils which fit into the oven without too much wasted space. Then arrange them so there is free circulation of air on all sides.

The oven in your gas or electric range does the rest of the job. No oven peeking or anxious moments spent wondering how the food's doing! Meats, vegetables, breads, and desserts cook to perfection—and you get the same perfect results time after time.

For your convenience we give you menus, recipes, and suggestions for preparing four oven meals—meals that cook at different temperatures and for different lengths of time. Work out more of your own, then see how easy it is to let your trusty oven hustle out "fit-for-a-king" meals.

More photographs, menus, and recipes on pages 78 thru 81

New Congress may change farm program

Leaders disagree. Agricultural committee chairmen plan drive to continue farm price supports at 90 percent of parity level

WHEN the Eighty-first Congress convenes in January, the people will have their first real chance to see the results of last November's election.

It's always a gamble what Congress will do, especially before the members have even been seated. But the way things are shaping up, it's a safe bet that some of the hottest fireworks in the coming session will be in the field of agricultural legislation, especially price supports for farm products.

Back of the oncoming battle is the wide disagreement among new agricultural leaders in Congress, U.S.D.A. officials, and major farm organizations.

Congressmen expect to act on a variety of farm problems

Along with the move to change the present price-support law, the Eighty-first Congress is almost certain to take action on a number of other things of vital interest to farmers.

If the new congressional leaders have their way, price supports for farm products in future years will be held to at least 90 percent of parity and definite provisions made for the widespread use of acreage allotments and marketing quotas.

If this country gets another shot at the International Wheat Agreement, Capitol Hill will be far more favorable toward it than last year.

Early action will be taken toward changing the Commodity Credit Corporation charter regarding the storage limitations of that organization.

Other matters of importance include combining the Soil Conservation Service with the Extension Service, reorganization of the United States Department of Agriculture, and another attempt to write a long-range farm bill.

You can expect many changes because of the sweeping Democratic victory. There'll be new faces in Congress. But more important than that fact, the Democratic majority in both the House of Representatives and the Senate means a change of leaders in Congress and the chairmen of the various committees whose job it is to study and make recommendations on the many, many bills before Congress.

Of major importance to American farmers is the fact that Representative Clifford R. Hope (Republican, Kansas) and Senator George D. Aiken (Republican, Vermont) will lose their influential positions as chairmen of the House and Senate Agricultural Committees. These Congressmen were instrumental in writing and advancing the present price-support bill.

In the new Congress, Clifford Hope will be replaced as chairman of the House Agricultural Committee by Harold D. Cooley (Democrat, North Carolina). At the same time, Senator Aiken steps aside as chairman of the Senate Agricultural Committee to be replaced by Senator Elmer Thomas (Democrat, Oklahoma).

Would hike price supports; impose production controls

Despite persistent rumors of the last few months, there isn't a chance that the new Congress will knock down present price supports for farm products in 1949. If the cotton South has its way, support prices will be kept at the 90-percent level instead of flexible supports in 1950. [*Turn to page 63*

Senator Aiken

Congressman Hope

Secretary Brannan

Senator Thomas

Congressman Cooley

By Verlo Butz

Fireplace side of living room balances the curved sofa on the opposite side. The room is cozy without being cluttered. The chairs are covered with heavy satin, the windows curtained with lovely sheer marquisette to allow a maximum of light to enter the room

Office and sunroom are combined. Mr. Anderson finds the many windows helpful to his desk work, while a day bed and lounge chair offer places to relax as well

They knew what they wanted

The Andersons studied their needs

Planned suitable rooms around them

Built this charming, livable home

Central rear hall saves unnecessary travel thru other rooms. This hall at the Andersons permits direct traffic to the bathroom, basement, kitchen, upstairs, or front of home

AN IDEAL home is suited to the interests and activities of the family. That's what the Percy G. Andersons near Fremont, Newaygo County, Michigan, felt when they decided to build in 1937. So they planned their Dutch Colonial, two-story farm home to fit their style of living.

Mrs. Anderson, who is interested in art and paints many of the pictures in her home, worked out her own color schemes. The dining room, living room, and office are connected by French doors. She decided, therefore, to use three shades of green to co-ordinate them. In the office she used a clear-green, in the living room a grayed-green, and in the dining room, yellow-green. Her kitchen has light-blue and dark-blue walls, with red trim.

For help in the planning of their home, Mrs. Anderson called on the decorating studio of Herpolsheimer's Department Store in Grand Rapids. Together they chose a rust-rose shade of carpeting to be used in the living room, hall, and dining room. You will note that the draperies have a floral design with shades of rose, rust, and green leaves on a white background.

The Andersons looked for furniture next. They wanted simple, pleasing lines first of all—and, of course, comfort. They selected special fabrics for the coverings of the fireplace chairs and circular sofa. The chairs are changeable satin—under some lighting, rose; under other, gold.

THERE are three bedrooms and a bath upstairs, and a recreation room in the basement.

Wise planning and practical furnishings have made the Andersons' dream for comfortable living a reality.

Living room color scheme creates a feeling of quiet elegance and blends with Mrs. Anderson's own still-life paintings. Note how well the big curved sofa breaks the long wall area

Home faces the driveway, making it convenient for guests to come to the front door. Spacious, landscaped lawn makes a lovely setting, is also an invitation to good outdoor living

Kitchen is a U-shaped plan. It is compact to save steps for Mrs. Anderson, yet has adequate work surfaces and storage space. The dining corner is convenient for hurry-up meals

Dining room is sunny, pleasant. Wall-to-wall carpeting blends living-and-dining areas together

EXTRA GALLONS OF HOT WATER

..at the Push of a Button

All the Hot Water you want . . . when you want it . . . without work, dirt or worry. Exclusive new Booster Button on Westinghouse De luxe Water Heaters gives you gallons *more* hot water from the same size heater . . . electrically, automatically. And best of all, there's a Westinghouse Water Heater to meet every home and farm need. Equipped with the famous immersion-type Corox elements . . . a Cold Water Baffle that keeps incoming cold water from cooling the hot water . . . and a new Tank Guard that stops corrosion. Each is backed by a 10-year Protection Policy. See them, and other members of this famous family of appliances, at your Westinghouse retailer's now.

EVERY HOUSE NEEDS A

Westinghouse *Water Heater*

WESTINGHOUSE ELECTRIC CORPORATION • APPLIANCE DIVISION • MANSFIELD • OHIO

TUNE IN TED MALONE . . . EVERY MORNING, MONDAY THROUGH FRIDAY . . . ABC NETWORK

Ham-Split Pea Soup
Serves 6

Soak . . . . . **1 cup dried split peas** overnight
Drain peas; cover with
3½ quarts water
Add . . . . . **1 small ham hock**
½ cup chopped onion
Cook until ham is falling off bone.
Remove hock; cut ham in small pieces.
Make white sauce with
3 tablespoons butter
3 tablespoons flour
2 cups milk
½ teaspoon salt
⅛ teaspoon pepper
Add pea mixture; cook until thick.
—Mrs. Ralph Emmick, Illinois

Rich Oyster Chowder
Serves 6

Cook . . . . **¼ cup chopped onion** in
3 tablespoons butter
Add . . . . . **1 pint oysters,** cut in half
¼ cup chopped celery
2 cups cooked, diced potatoes
½ cup cooked, diced carrots
4 cups milk
1½ teaspoons salt
¼ teaspoon pepper
Bring to boil; add paste made of
1 tablespoon flour
¼ cup water
Stir until mixture is thickened.
Add . . . . . **1 cup oyster liquid** or **water**
Reheat but do not boil.
—Mrs. M. E. Foust, Pennsylvania

Cream of Carrot-Potato Chowder
Serves 6 to 8

Cook in salty water until tender:
2 cups diced carrots
2 cups diced potatoes
Cook in saucepan 5 minutes:
¼ cup butter
½ cup chopped onion
Add vegetables and
4 cups hot milk
1 teaspoon salt
¼ teaspoon pepper
3 frankfurters, sliced
Heat to boiling point; serve hot.
—Mrs. R. L. Pease, Nebraska

Upside-down cakes

Serve these hot or cold, with or without whipped cream, for dessert or refreshments

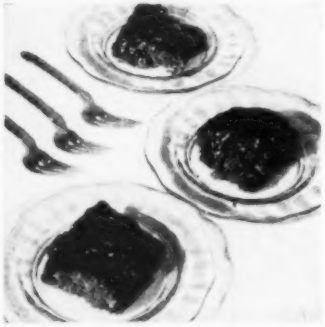
Coconut-Caramel Cake
Makes one 8-inch-square cake

Cook in 8-inch pan until blended:
6 tablespoons butter
⅔ cup brown sugar
2 tablespoons water
Add 1 cup toasted coconut
Sift . . . . . **1¼ cups sifted cake flour**
1¼ teaspoons baking powder
½ teaspoon salt
¾ cup sugar
Cream . . . **¼ cup butter**
Stir in dry ingredients and
1 egg, well beaten
½ cup milk
1 teaspoon vanilla extract
Beat vigorously 1 minute.
Pour batter over coconut mixture.
Bake at 350° (moderate) 50 minutes.
—Mrs. C. H. Mann, Indiana

Photographs by Stanley

Cinnamon-Apple Cake
Makes one 8-inch-square cake

Mix . . . . . **½ cup butter**
1 cup light brown sugar
2 tablespoons light cream
Spread in 8-inch-square baking pan.
Arrange . . **2 cups sliced apples** in pan
Sift . . . . . **1½ cups sifted flour**
2 teaspoons baking powder
1 teaspoon cinnamon
½ teaspoon salt
Cream . . . **¼ cup shortening**
¾ cup sugar
Beat in . . . **1 egg**
Add dry ingredients alternately with
½ cup milk
½ teaspoon vanilla extract
Pour batter over apples.
Bake at 350° (moderate) 40 minutes.
—Mrs. Paul Heise, Kansas



Cherry Upside-Down Cake
Makes one 8-inch-square cake

Cook over low heat until thick and clear:
½ cup light corn syrup
3 tablespoons cornstarch
1 cup cherry juice
Add.....**2 cups drained, canned cherries;** pour into pan
Sift.....**1 cup sifted flour**
1 teaspoon baking powder
¼ teaspoon salt
Beat.....**2 eggs** until thick
Blend in **¾ cup sugar** gradually
Stir in.....**1 tablespoon water**
½ teaspoon almond extract
Fold in dry ingredients.
Pour over cherries.
Bake in slow oven (325°) 70 minutes.
—*Mrs. Theodore Ridenour, New York*

Chocolate Upside-Down Cake
Makes one 8-inch-square cake

Sift.....**1 cup sifted flour**
¾ cup sugar
1½ tablespoons cocoa
2 teaspoons baking powder
½ teaspoon salt
Add.....**2 tablespoons butter**
¾ cup milk
¾ cup chopped pecans
1 teaspoon vanilla extract
Beat 2 minutes; pour in greased pan.
Mix together and sprinkle over batter
1 cup sugar
¼ cup cocoa
Pour.....**1 cup hot water** over cake
Bake at 350° (moderate) 35 minutes.
—*Mrs. F. D. Evans, Ohio*

Orange Upside-Down Cake

Arrange in greased, 8-inch-round pan:
½ cup brown sugar
8 or **9 thick orange slices**
12 maraschino cherries
Sift.....**1¼ cups sifted cake flour**
¾ cup sugar
2 teaspoons baking powder
¼ teaspoon salt
Add.....**⅓ cup shortening**
½ cup milk
1 teaspoon vanilla extract
Beat 2 minutes.
Add.....**1 egg,** unbeaten
Beat 2 minutes; pour over fruit.
Bake at 375° (moderate) 30 minutes.
—*Mrs. Irene Wolf, Michigan*

Hearty soups and chowders

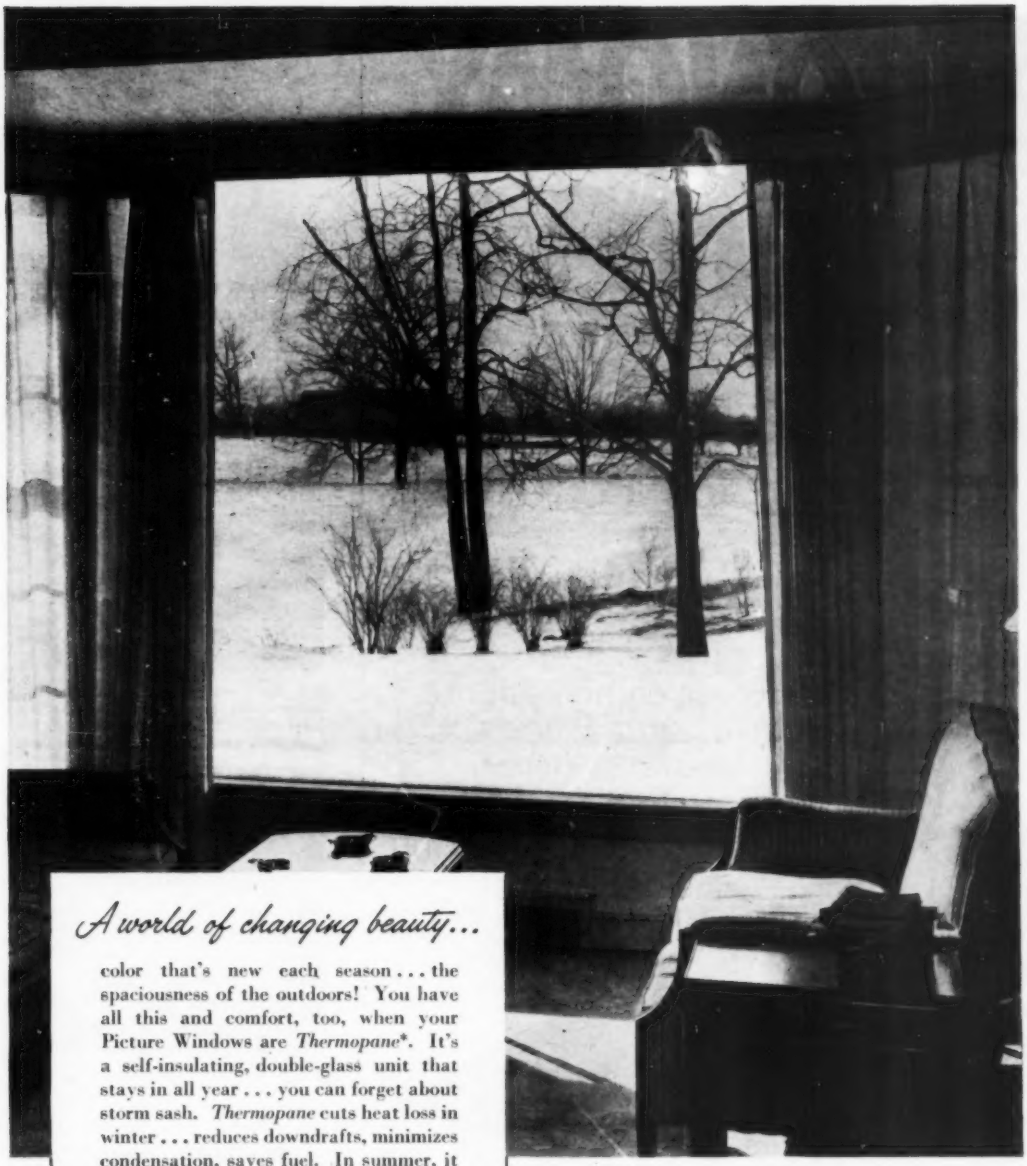
Hot, nourishing soup or chowder hits the spot on blustery days. These are country style and good

Country Chowder With Pork
Serves 6 to 8

Soak 2 hours in 4 quarts cold water
½ pound dried Lima beans
Add.....**2 small, fresh pork hocks**
1 tablespoon salt
¼ teaspoon pepper
1 bay leaf
Simmer slowly 1½ hours.
Add.....**1 large potato,** diced
2 large carrots, diced
1 large onion, diced
1 cup cabbage, cut in small pieces
½ cup tomatoes
½ cup cut green beans
Cook 30 minutes over low heat.
Serve piping hot with the pork cut from hocks.
—*Mrs. Adelia Kubasiak, Michigan*

Hearty Vegetable-Beef Soup
Serves 6 to 8

Simmer 4 hours, or until meat is tender
1 meaty soup bone (beef or **knuckle of veal)** in
3 quarts water
Remove soup bone; cut meat from bone.
Put part of meat into broth; reserve other part for hash or croquettes.
Add to broth and meat:
1 cup chopped onion
2 cups chopped celery
2 cups tomatoes
2 cups sliced carrots
2 cups diced turnips
Simmer until vegetables are tender.
Season to taste with **salt** and **pepper.**
—*Mrs. Mary Lee Chapmann, Missouri*



A world of changing beauty...

color that's new each season . . . the spaciousness of the outdoors! You have all this and comfort, too, when your Picture Windows are *Thermopane**. It's a self-insulating, double-glass unit that stays in all year . . . you can forget about storm sash. *Thermopane* cuts heat loss in winter . . . reduces downdrafts, minimizes condensation, saves fuel. In summer, it helps protect your rooms from outdoor heat. With *Thermopane*, you'll enjoy greater year-round comfort in all climates.

*®

CUTAWAY VIEW OF THERMOPANE

L O F

Thermopane

MADE ONLY BY

LIBBEY·OWENS·FORD GLASS COMPANY

219 Nicholas Building, Toledo 3, Ohio

Sent on Request . . . your free copy of our *Thermopane* book containing full information.

ECONOMY CUTS

are fit for a King when you add Heinz Tomato Ketchup

Many a thrifty meat dish... or leftover combination... takes on a world of luxurious flavor by the simple addition of spicy, wonder-working Heinz Tomato Ketchup!

HEINZ Tomato Ketchup 57

Makes Low-Cost Meals Delicious!

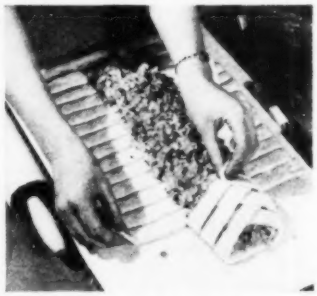
Tips for the cook

Ideas that add sparkle to meals, and make food preparation simpler

Photographs by Stanley

● To flavor roasts subtly, fasten pieces of onion, garlic, or olive on toothpicks and insert them so food rests against meat. The juices drip down in roasting, basting meat

● Nest eggs in a bed of hot, mashed potatoes, mixed with chopped bacon and onion. Bake until eggs are set; sprinkle salt and grated cheese on eggs before they are done



● Make meat pie from leftovers. Roll regular biscuit dough in ½-inch-thick rectangle. Fill center with mixture of meat and vegetables. Cut dough in strips from filling to edge. Lace strips together. Bake 45 minutes

● Season leftover mashed potatoes with onion, parsley, and pimiento, then sandwich between 2 slices of luncheon meat. Bake 15 minutes at 325° on baking sheet

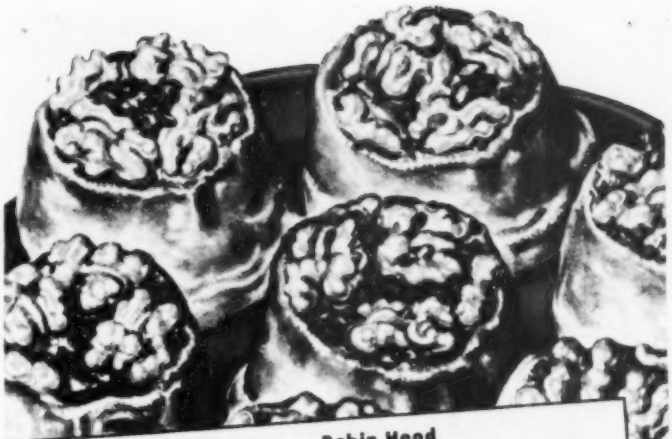
● Arrange apples, stuffed peppers and stuffed tomatoes in greased muffin pans before putting them into oven to bake. They will keep their shape and be easy to remove

● Grand at any meal is a buttered parsley loaf. Trim off top and side crusts. Cut loaf in two lengthwise down to, but not thru, the bottom crust. Cut crosswise in squares. Brush with butter and chopped parsley. Place in a hot oven in loaf pan until edges brown

● Cream sauces seasoned with Tabasco sauce are delicious for hard-cooked eggs, chipped beef, and chicken a la king. Add 1/8 teaspoon of Tabasco sauce to 2 cups of cream sauce before removing from heat.

● A new, tasty way to prepare veal steak or chops is to dredge the meat in finely crushed corn flakes or yellow corn meal. Brown on both sides in fat; cover, cook on low heat until tender. Serve with sour-cream gravy.

● If leftover mashed potatoes always mean potato cakes the next day, vary the routine by shaping into balls, rolling in corn flakes, and baking in a greased pan at 375° for 15 minutes. Serve piping hot. They're delicious!



Robin Hood

Walnut Cinnamon Buns

Recipe by Rita Martin

3 tbsp. butter
¼ cup sugar
½ tsp. salt.
1 cup milk, scalded
1 cake compressed yeast or 1 pkg. granular yeast
3½-4 cups sifted ENRICHED ROBIN HOOD FLOUR
2 eggs
Brown Sugar, Butter, Cinnamon, Walnut halves

METHOD

ADD—butter, sugar and salt to scalded milk; cool to lukewarm.

DISSOLVE—crumbled yeast in milk mixture; add 1 cup of flour and beat with rotary beater until well blended; add eggs and beat again.

MIX IN—remaining flour and blend well; allow dough to rest, covered, on molding board for about 5 minutes; knead dough until smooth.

LET RISE—covered, in warm place until doubled; punch down and knead slightly.

PAT—or roll out dough into a rectangle ½ inch thick, brush with melted shortening, sprinkle with brown sugar and cinnamon.

ROLL—dough lengthwise and seal the edge; cut roll in 1½ inch pieces.

PLACE—1 tsp. brown sugar, 1 tsp. melted butter and several walnut halves in bottom of well-greased muffin pans; place rolls cut side down in muffin pans, and let rise until light.

BAKE—in moderately hot oven, 375°, 18 to 20 minutes.

TURN—pan upside down onto baking sheet and allow pan to remain over rolls for a few minutes.

YIELD—2½ to 3 dozen medium-sized rolls.

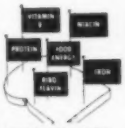
You couldn't pay me to use any other flour

—says Mrs. Ivan Hudson, Battle Creek, Mich.

"When it comes to flour, I've tried them all," says Mrs. Hudson, "and I've found that Robin Hood really is different. I get top results every time."

When you try Robin Hood you, too, will be every bit as enthusiastic as Mrs. Hudson. You see—you just have to get top results with this famous flour. There's a money-back-plus-10% guarantee in every bag that says just that.

Robin Hood is different from other flours. Immense sums have been spent to perfect its Million Dollar "Secret Blend." That's why it gives you such flavorsome bread—such light and fluffy cakes—such tender, flaky pastry. Ask your grocer for Robin Hood Flour the very next time you shop, and use it for all your baking.



6-way nourishment when you bake with ROBIN HOOD Enriched Flour

Look for valuable Aluminumware Coupon in each bag of Enriched Robin Hood Flour!

INTERNATIONAL MILLING COMPANY
General Offices: Minneapolis, Minn.

Robin Hood Flour

Reg. U. S. Pat. Off.

"America's Fastest Growing Flour"

FOR MY MEN, I BUY

NAVEL ORANGES WITH 3 EXTRAS!

RICHER FLAVOR

Hearty appetites, old or young, go for the *extra* flavor of navel oranges. You can taste a real difference no matter how you serve them ... juice or eating. You can *see* a difference too. That golden color spells quality!

MORE VITAMINS

California navel oranges mean *extra* health for your family... more vitamins C and A, more calcium per glass. Other minerals and B vitamins, too. Healthful vitamins in their natural form... the *best* form.

NO SEEDS

And they're really seedless. California navel oranges are easy to peel, slice and section. Use them in *extra* ways—for juice, school lunch boxes, recipes and snacks. Those stamped Sunkist are the best from 14,500 co-operating California-Arizona citrus growers.

REMEMBER: *Only* FRESH *orange juice gives you* ALL *the flavor,* ALL *the health.*

Sunkist

CALIFORNIA *Navel* ORANGES

BEST FOR JUICE - *and Every use!*

Cook as good as they look

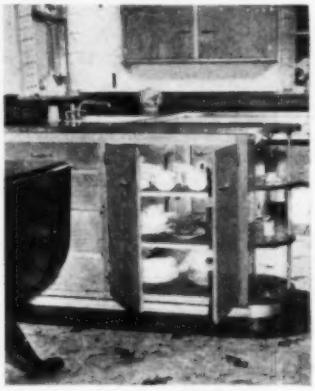
[*From page 36*]

weekly classes. To date, many kitchens have been remodeled in the county.

It was at this first clinic that Mrs. Dale Stubblefield began to make plans for her present large, charming kitchen. It is pictured on page 37, showing Bob and Jeanne Stubblefield entertaining their friends, Larry Haug, of Shelton; Mary Lippincott, Gibbon; Janet Walford, Gresham; and my son, Rex Van Camp.

She found the answer by removing a partition between the old kitchen and a pantry to the south. This enlarged the kitchen to twice its former size. A peninsula with range and serving unit on one side, and a breakfast bar on the other, was built where the wall stood. Cabinets and a sink were installed under the window to the south. This window, incidentally, is bordered with glass bricks which admit light and add cheer to the room.

Another triumph which grew out of the clinic is the compact, U-shaped kitchen in the George Segard home (page 36). It was built on when their home was remodeled. Upon an invitation from Mrs.



The Alton Lowells built a timesaving peninsula and service unit between their kitchen and dining areas, shown above and below

Segard, I visited this home. We drew floor plans for the addition, determining the size and space requirements by using scaled "cutouts" of the equipment.

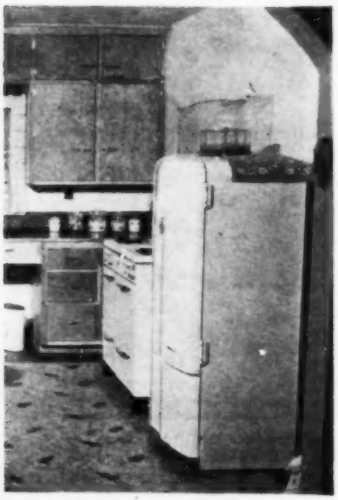
Once the equipment, windows, doors, and storage units were located, it was easy to see where extra wall or floor space was needed. We wanted the room sized to suit the family needs, in keeping with their income.

Mrs. Segard now works from left to right. (With her former arrangement, she had wasted time backtracking.) The kitchen with its three units is convenient now. Her food-preparation unit is located between the sink and refrigerator; her cleaning unit is in the center of the room, with the sink under a window. And to the left is the cooking-serving unit with the range as a center. Cupboard files and shelving were built to fit Mrs. Segard's equipment, and arranged to prevent extra steps, needless stacking, stooping; and reaching. Cabinets are at proper height for this tiny homemaker.

The remodeled Ed Smallcomb kitchen has an interesting history. At one time, it was 20'x20' with a 4'x4' pantry at the end. A typical "grandmother's kitchen"

[*Turn to page 56*

Pull-out storage shelves, open on both sides, make preserves and canned foods easily accessible in kitchen of the Ed Tollefsen home



The Crane Laundrette Laundry Tub, with finger-tip Dial-ese control.

Even This Chore is Easy With a Crane Laundrette!

And as for *Mother's* work—well—the *hard* jobs are done! No more running for water . . . no more struggling with a heavy wash boiler. Here at her Crane Laundrette Laundry Tub is all the water she wants—hot, cold, or mixed—right where she wants it.

Room? Say, there's room for *all* the wash in those two big tubs. And the left-hand tub has *its own washboard* molded right into the side.

The Crane Laundrette is sparkling white—and *stays* that way with the swish of a damp cloth. Convenience? Look at those Crane *Dial-ese* faucets. They turn on and off at a finger's touch!

A Crane water system brings this kind of convenience all through your farm home. A Crane water heater, Crane fixtures in the bathroom, a Crane sink in the kitchen—what a blessing they are!

Outside, too, Crane piping brings running water for the stock, and to speed those clean-up chores. Yes, Crane supplies the *whole system*—pump, piping, fixtures, controls—everything you need!

You may find it costs less than you think to have all this convenience for your farm and home. Ask about it. Stop in at your Crane Dealer's next time you're in town.

CRANE CO., 836 S. Michigan Ave., Chicago 5, Illinois

PLUMBING AND HEATING • VALVES • FITTINGS • PIPE

A Complete CRANE water system includes
PUMPS, PIPING, PLUMBING FIXTURES
It brings you new conveniences

IN THE BATHROOM *IN THE KITCHEN* *IN THE LAUNDRY*

CRANE

CRANE SERVES THE READERS OF SUCCESSFUL FARMING THROUGH BRANCHES, WHOLESALERS, AND PLUMBING AND HEATING DEALERS IN EVERY COMMUNITY

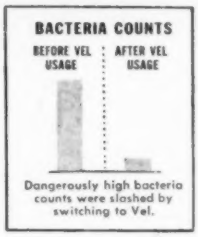
Dairy Experts Prove **VEL*** **REDUCES BACTERIA COUNTS**

Cleans More Completely...Faster...Easier!

VEL *and only* **VEL** *gives you this proof*

As you can see from this chart—the result of months of research work by a prominent dairy laboratory, Vel drastically lowered bacteria counts—before and after pasteurization—on every dairy farm tested.

Reduce your bacteria counts! Improve the quality of your milk and cream! Clean your milking machines, separators, pails, cans, strainers and butter churns with Vel!



YES, Vel cleans so clean that it leaves no milk fat or milk slime to feed bacteria. And Vel prevents milkstone from forming. This slashes high bacteria counts, as shown on the chart above.

Vel is not a soap—not a bactericide. Vel is a soapless suds of the type recommended by many agricultural schools. Vel cleans so easily—with so little brushing—that now, for the first time, the busiest farmer can keep his equipment *really* clean, with a minimum of work.

VEL CLEANS A SEPARATOR IN TWO MINUTES!

Here's How:

1. Rinse the supply tank with a pint of warm water or skimmed milk. Let drain over float to remove the cream.

2. Put a tablespoonful of Vel in the empty supply tank. Add a pailful of hot water and run this solution through the machine while brushing bowl and spouts.

3. Dismantle the machine, inspect discs; brush, if necessary, with Vel suds. Put parts in supply tank and scald. Leave to drain and dry.

VEL CUTS DISHWASHING TIME IN HALF!

Dishes and glassware gleam without wiping when they're washed with Vel. No soap scum or greasy film to polish away. Vel cuts grease faster, more completely than soap! Vel is wonderfully mild to hands—contains no alkali!

***VEL is the trade-mark of the Colgate-Palmolive-Peet Co.**

Cook as good as they look

[*From page 55*]

where many steps were wasted. This room was divided, and now is 9′x20′ in an "L" arrangement (page 36). The pantry was enlarged into a utility room with an outside entrance. The men and children can wash here before coming into the kitchen.

Mrs. Alton Lowell was another homemaker who attended that first clinic. The Lowells had lost their home by fire and were building a new one. The plans and fundamental principles gained at the kitchen clinic were the basis for her "U" kitchen arrangement.

Unique feature of this kitchen is the peninsula with built-in china cupboard (page 54). It divides the kitchen from the dining area. China is stored on the kitchen side after being washed, and removed on the dining side when the table is set. In the drawers near the table, Mrs. Lowell stores silver, linens, and other accessories for serving. The feature is a great timesaver.

Another of our homemakers who utilized a small space to good advantage is Mrs. Evan Hartman. Her attractive, remodeled kitchen is packed with labor-saving ideas. In her oven preparation unit she has a file for oven glassware; near the refrigerator, trays are filed. Pull-out shelves, shown on page 57, fit her utensils. The sugar and flour drawer, placed just below her mixing center, prevents stooping, making the contents easy to reach when Mrs. Hartman stirs up a cake or rolls piecrust.

IF I were to put a finger on the one secret back of a satisfying kitchen, it would be planning—careful planning so that the equipment and storage space is arranged to save steps and eliminate needless work. You, as a farm homemaker, spend many hours in the kitchen. Why not make those hours pleasant? On the opposite page is the check list which the women of our county are using in their kitchen-planning work. I hope it will serve as a guide for you.

Mrs. Tollefsen finds this "Lazy Susan" revolving shelf under her corner cupboard convenient and roomy for storing bulky articles

Tin-lined drawer below mixing unit in Evan Hartman kitchen holds flour, sugar. Utensils are filed in drawer with sliding partition

Author examines three-tiered, pull-out shelves in Hartman kitchen. They are floored with linoleum for easy cleaning

Is the kitchen comfortably heated and ventilated at all times?

Are traffic lanes away from my work area?

Is the floor easily cleaned?

Can I work from left to right?

Is there adequate storage space for supplies, utensils, and kitchen linens?

Are they located near unit where used?

Is equipment as complete as possible?

Is it in usable condition?

Is refrigerator located near sink, worktables, and range?

If two stoves are used, are they conveniently near each other?

Is there adequate work area on both sides of the sink?

Is the height of the sink comfortable?

Is it near the worktable, range, and refrigerator?

Are hot and cold water available?

Are the worktable, cooking center, and sink well lighted and arranged to prevent glare?

Is the height of the worktable comfortable?

Is the worktable covered with material easily cleaned?

If the kitchen is large, is there a small table or tray on wheels to save steps?

Is the color scheme of the kitchen well planned and enjoyable? **END**

Why high prices?

"THE price of meat is sky-high! Something must be done to roll these prices back to a 'fair' level."

"The bottom has fallen out of the corn market! Something has to be done to raise the price of corn back up to a 'fair' level."

Statements like these have been heard in nearly every butcher shop and elevator across the land. They are made by consumers and farmers alike who have government controls as the "something" in the backs of their minds. These remarks illustrate the one indisputable fact about prices—the prices of things we buy are always "too high"; prices of things we sell are always "too low."

Farmers recently have had more than their share of the blame for high prices

Nothing is wrong with this attitude in a competitive society such as ours. However, people who constantly turn to their government to "do something" about individual prices which are not "right," probably are not clear as to just what a price tag means in our free-enterprise system.

The American farmer has come in for more than his share of criticism, because food prices have shot up much faster than other prices. Also, because the farmer has price floors guaranteed by the government, the consumer has been more than willing to lay the blame for high food prices at his doorstep. Because of the tendency to blame someone for high prices, we need to take a long, appraising look at the price tag on food.

The housewife walked into the butcher shop last fall to buy the family meat. She found that the price tag on pork had been marked up. Why? What had happened?

First, that price tag carried a story of reduced production. Our corn crop in 1947 was poor. Hogs are largely corn on the hoof, so the short crop meant that available feed supplies for hogs were sharply reduced. Hog producers in the fall of 1947 were faced with feeding scarce, high-priced corn into not-so-high-priced hogs. The government was asking consumers to eat less meat thru the food-conservation program. The corn-hog ratio was low. Profit chances looked slim.

In a society such as ours, the individual has the right to choose how he will use his time and money. Generally, he will abandon or reduce doing those things in which he is making a relatively small profit. He will enter into or increase those things which are making him more money.

The American farmer did just what anyone would do.

The price tag told farmers: "People want other things more than they want pork." As a result of these "price-tag orders," farmers farrowed 8 percent fewer sows and produced 3 percent fewer pigs in the spring of 1948 than a year earlier.

The price tag on pork in the butcher shop has a job to perform for consumers, too. Since fewer hogs were raised last spring, there has been less pork in the butcher shops this winter. However, consumers have money with which to buy something. It is evident that there isn't enough pork to go around in the same style as a year ago. Who, then, is to get the available pork?

When given a chance to work, prices can regulate markets better than government can

The price tag gives the answer. It tells the housewife that if she wants meat she will have to pay the price. Actually, the price tag tells the consumer, "Here's the price, take it or leave it!" In this way, prices act as the automatic ration card for scarce items.

Given a friendly atmosphere in which to work, price tags on almost all items give orders in the same way—and in a fairly efficient manner. Prices will act as the go-between for producers and consumers. They tell the farmer what the consumer wants, and move into consumption that which the farmer already has produced. It is a good thing for both producers and consumers to stop and think a little of the tremendous and efficient job which the simple price tag does.

This system of free-market price tags, of course, is not the only way to accomplish the large and complicated job of producing and consuming. In our price-tag system, necessary directions are given by millions of people, each acting in his own selfish way.

Right now, in some countries these same directions are being given by small groups of government people who are telling farmers what to produce and consumers what to eat.

Those who would tinker with prices should recall unpleasant days of war controls

Those who are ready to shout for price controls and those who would freeze farm prices should think back a few years. In 1945, during the days of price ceilings, rationing, and subsidies, it was thought wise to hold prices below the level to which they would naturally have gone. At the same time, it became necessary to assure each consumer his "fair" share of the products by giving him ration coupons. Our over-all food production in 1945 was about the same as in 1948 from the standpoint of quantities available. Yet, there was a big difference.

In 1945, butcher shops were filled with long lines of people, each with his ration coupons and fighting to get his legal [*Turn to page 62*

By R. L. Kohls and Don Paarlberg
Department of Agricultural Economics, Purdue University

For REAL Protection...

"Lubri-tection"!*

Phillips 66 Premium Gives Plus Protection to Farm Trucks and Tractors!

That's right—*plus* protection! You see, Phillips 66 Premium gives you lubrication *plus* protection. That's why we call the job it does for you "Lubri-tection".

Here's an oil refined from high-quality crudes. It's a swell oil to start with. But we improve this oil by adding compounds which help to fight power-stealing sludge and sticky deposits. It's a *great* oil!

Ask your dealer or tank wagon driver about Phillips 66 Premium. There must be a reason for the ever growing popularity of this newest Phillips 66 Motor Oil!

"Lubri-tection"—the protection rendered by an oil of fine base stock containing special detergent and oxidation inhibiting ingredients.

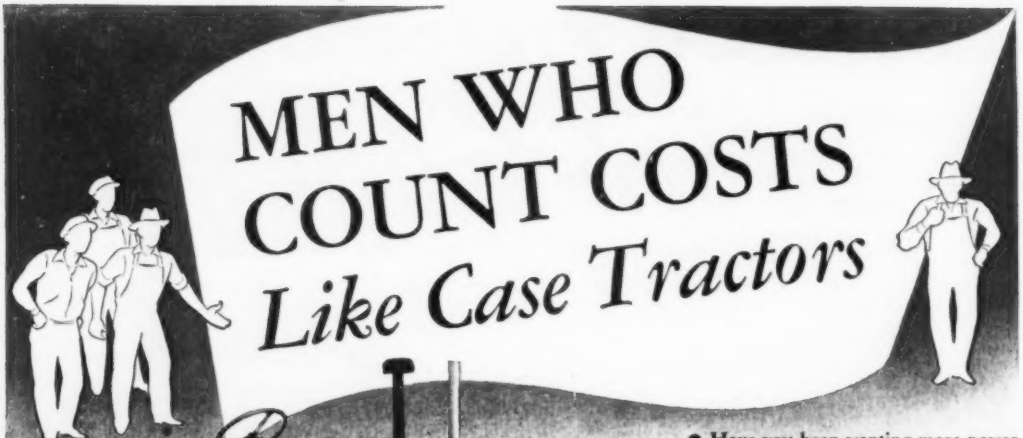
PHILLIPS 66 PREMIUM MOTOR OIL

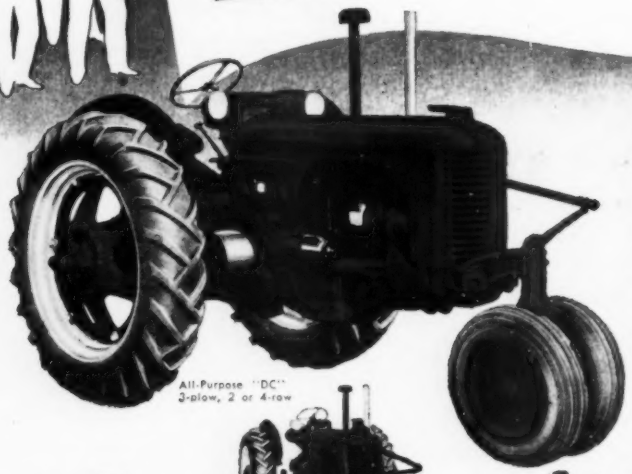
Worth Looking Into—
PHILLIPS 66 TRACTOR TIRES!

A profitable deal for you and your tractor! Your Phillips 66 Dealer now carries high-quality Phillips 66 Tractor Tires. Talk to him about this latest addition to Phillips 66 famous line of farm products.

FOR BETTER SERVICE... PHILLIPS 66

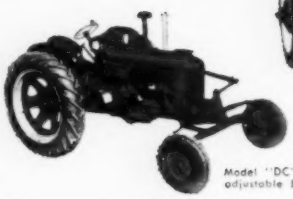
MEN WHO COUNT COSTS *Like Case Tractors*



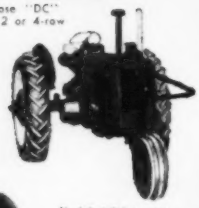


All-Purpose "DC" 3-plow, 2 or 4-row

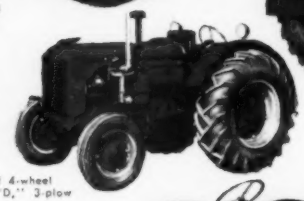
● **Have you been wanting more power to hustle heavy work when help was scarce and bad weather has held you back? Then step up into the 3-plow class with a Case "D" Series tractor. Do in four days as much plowing, disking and drilling as a smaller tractor can do in a week or more. Save one-third of your precious labor on all such jobs. Cultivate 2 or 4 rows, clean and full depth, with rear-mounted tool-bar or front-mounted gangs. Cultivate fast with Case Quick-Dodge steering.**



Model "DC" with adjustable front axle



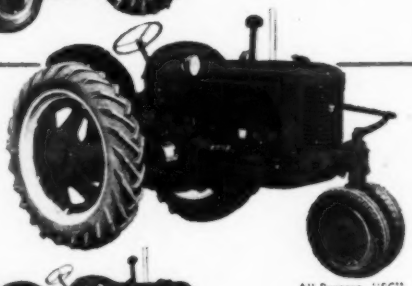
Model "DC" with single front wheel



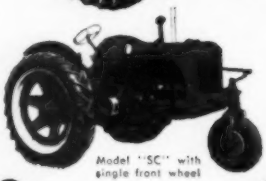
Standard 4-wheel Model "D," 3-plow

Model "DO" for groves and orchards

● **Do you want power, pull and gear speeds to get extra capacity and performance from every implement in the 2-plow class? Then get one of the full 2-plow Case "S" Series tractors. Enjoy the thrill that comes with plenty of eager power for every job. Shorten your working day and lengthen your leisure hours with the big difference between barely enough power and power to spare. Get better results with corn picker and other power-take-off machines. Do light work at low engine speed with the Case fuel-saving fourth gear, haul heavy loads at safe highway speeds.**

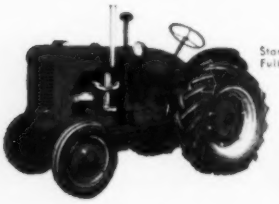


All-Purpose "SC" Full 2-plow, 2-row



Model "SC" with single front wheel

Model "SO" for orchard and grove



Standard 4-wheel Full 2-plow "S"

Model "SC" with adjustable front axle

● Look at tractors like livestock! You judge a cow by the milk pail, a hen by the egg basket, a hog by the pounds of pork per bushel of feed. Judge tractors the same way—by results. Look past the paint and the gadgets to the purpose of a tractor—to put power to work and push your farming forward. See how Case tractors in every size-class have the pull, the right gear speeds, and the sure-footed traction to work more acres for every day of your time. See how their extra comforts, convenience and easy handling save your strength. See how their consistent economy holds down your fuel bills. See how Case ENDURANCE gives extra years of use from your investment, saves money every year on upkeep.

20 GREAT MODELS

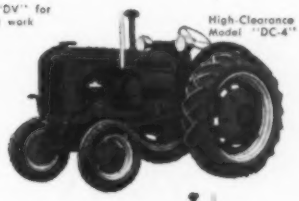
. . . to Cut Costs on Every Size and Type of Farm

Mighty Model "LA" 4-5 plow capacity

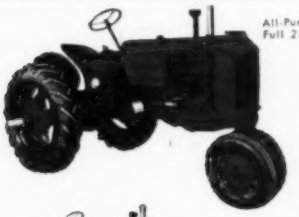
● Would you like to do two men's work with one man's time? The mighty "LA" pulls a 4 or 5-bottom plow and other implements in proportion. Compared with ordinary-size tractors, it enables a man to double his daily acreage in heavy tillage, cut his labor cost to a half, catch up time lost by bad weather. It's so compact, so easy to steer, so convenient in controls, that it's as easy to handle as tractors far smaller. It costs less per acre for operation and upkeep. The "LA" is even better-built than the prior model "L," long famous as the world's standard for tractor ENDURANCE and long-run economy.

Model "LA" Rice Special

Model "DV" for vineyard work

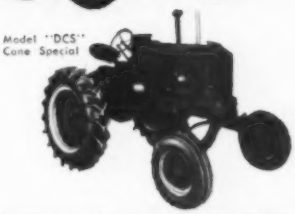


High-Clearance Model "DC-4"



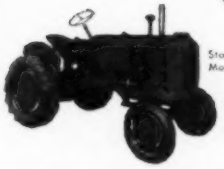
All-Purpose "VAC" Full 2-row, 1-2 plow

Model "VAC" with adjustable front axle



Model "DCS" Cane Special

Model "VAC" with single front wheel

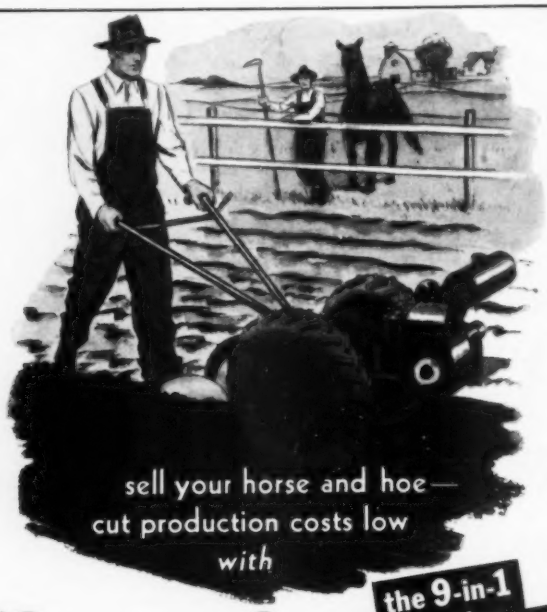


Standard 4 wheel Model "VA"

Model "VAO" for grove and orchard

CASE

● Do you want the most tractor for your money in the popular-priced class? Then pick one of the Case "VA" Series. Get 2-plow capacity in average soils, one-plow where conditions are tough. Get your outfit of mounted plow, planter, cultivator, etc., at a real saving by the economy of Master-Frame, a feature of the full 2-row "VAC." Enjoy the speed range of four forward gears, the convenience of hydraulic lift, the fuel economy and ENDURANCE of the Case valve-in-head engine. See your Case dealer for full information, including his arrangement for low-cost financing. Send for catalog; mention size of tractor that fits your farm, also any implements you need. J. I. Case Co., Dept. A-77, Racine, Wis.



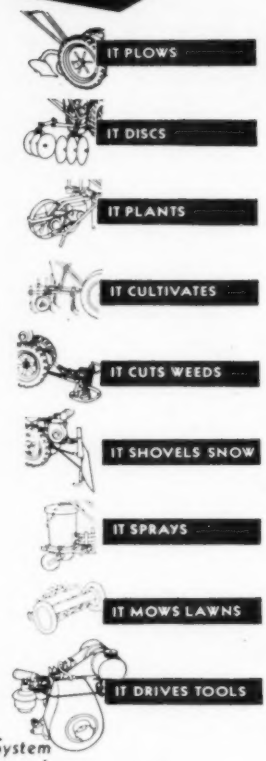
the 9-in-1 machine

Cunningham
ESTABLISHED 1838

GARDEN TRACTORS

Cunningham Garden Tractors take over many of the back-breaking jobs and chores in gardens, truck farms, crop and livestock farms of all sizes.

- **THEY DO IT BETTER**
  Cunningham Job-Engineered implements and tools are built for fine work. And they get the work done ON TIME.
- **THEY DO IT FASTER**
  Plow faster than custom plowman with his team . . . cultivate faster than a dozen men with hoes . . . cut weeds as fast as five scythes . . . and do many other jobs with comparable speed.
- **THEY MAKE IT EASIER**
  Cunningham Garden Tractors do the work. You guide your power with your finger-tips. A boy can operate any of the equipment.
- **THEY DO IT CHEAPER**
  No custom bills . . . no hired help . . . you can make the most of spare time . . . the garden tractor has the job finished before a man with hand tools is hardly under way.
- **THEY DO MORE**
  Cunningham Garden Tractors are year 'round workers. Hardly a day goes by that these tractors, with their versatile attachments, can't be profitably employed.



Reap the Benefits of the Garden Tractor System
Write Dept. 8, for FREE descriptive folder today

James Cunningham, Son & Co.
ROCHESTER 8, NEW YORK
• *Precision Machinery Builders for 111 Years*

Why high prices?

[*From page 58*]

share. Because the price tag was not permitted to give rationing orders to the consumer, there were many more standing in these lines than there was meat to go around.

With prices "frozen," the price tag could no longer give orders to producers. Production of some commodities was abundant, while for others it was not adequate. Government subsidies were used to increase the production of certain commodities. Milk, for example. In other lines such as cantaloupes and watermelons, restrictions were imposed to hold down production.

Administrators who decided the "right price" had less total knowledge than the millions of individuals competing in the market place. Prices between markets were not properly adjusted.

Hog producers will remember the gluts which occurred in some markets while other markets went starving for hogs. It took special decrees to iron out these situations.

As a consumer you will remember how some merchants got their products and others did not. The distribution system did not function smoothly. Black markets flourished.

Instructions to producers and consumers must be given. If price tags are not left free to give the orders, then someone else must. From our experience at least, when a few individuals, thru the government, took over the job, the result was far from satisfactory.

Price is similar to the temperature of our bodies. Temperature registers the many combinations of factors which affect our health. When it rises, something has happened to the stomach, the heart, the lungs, or the liver.

Prices register the net effect of the many factors which affect the welfare of producers and consumers. When the price rises, something has happened to one or more of the many factors that make price.

If your fever is high, would you rig the thermometer so it shows normal temperature?

When the body temperature rises and we do not like it, we could fix the thermometer so it would register "normal." Similarly, when prices rise and we do not like it, we could fix prices so they would register "normal."

If the thermometer is fixed, the doctor works under a handicap. He has nothing on which to base his diagnosis except the grunts and groans of his patient. That is not enough.

Fixing prices is a handicap to a nation. Under price controls, farmers and the consumers have nothing to guide them except the many grunts and groans of the nation.

No country yet has been able to assign the job of the free price tag to its government without losing personal freedom. In Biblical time, Esau sold his birthright to Jacob for a mess of pottage and later regretted the deal.

American farmers and consumers, if they delegate the price-making job to their government, may well find themselves in a similar situation. They may sell their birthright of freedom for a mess of government regulation. END

New Congress

[*From page 45*]

One of the big reasons is that the new chairmen of the Agricultural Committees are outspoken in their stand for price supports of at least 90 percent of parity, with a return to production controls. Not only that, but the Agricultural Committees may be weighted heavily with members from the South.

Secretary, Grange, and Bureau approve present support plan

This thinking is far different from that of Secretary of Agriculture Charles Brannan, the attitude of the Department of Agriculture, the National Grange, and the American Farm Bureau. Secretary Brannan, backed by his department, and the Bureau and the Grange, have long advocated flexible price supports with a modified parity, very much the same as provided in the present law.

Lined up with the North Carolina and Oklahoma Congressmen in their move for higher support prices is the Farmers Union. This group has agitated for 100 percent of parity price supports for the family-sized farm. The Union would settle for a lower support level as provided by loans, only if the government makes up the difference with cash payments to farmers.

Of all possible agricultural legislation, the matter of price supports is foremost in the mind of Congressman Cooley. "The most important thing Congress can do for farmers is to continue price supports," was his ready answer when I asked about farm legislation. "I think the price-support bill will be one of the first things the House Committee considers in January.

"There's a radical difference between the level of price supports after 1950 and what we have now. Under the present federal law, support prices are lowered just when farmers need them most. I'm definitely in favor of supporting basic farm commodities at full 90 percent of parity with limited production.

"When the desired production is determined, quotas can be established and farmers should comply with the acreage limitations. We ran into trouble with high support prices on potatoes without production controls. The government cannot afford price floors with unlimited production of any commodity."

Mr. Cooley stands opposed to the present sliding-scale provision as well as the modified base period. Present sliding-scale provision provides for higher or lower support levels, depending on the supply of the farm commodity on hand. The modified base period is a modernized method of computing the base price, starting with the old 1910-14 level and taking into consideration the price for farm products during the last 10 years of farm output.

Net effect of the modified base period will be to lower the support prices for grains and raise the support for livestock.

Farmers didn't bargain for increased government control

This move for higher support levels accompanied by increased government control of the farm business is something farmers hadn't bargained for in the election last November. Certainly, the majority of Northern farmers, especially in

[*Turn to page 65*

Free THESE 2 NEW WARD CATALOGS

The 1949 *Farm Equipment* CATALOG

IT'S BIGGER THIS YEAR —*More things you need:* the latest in farm machinery; a new Deepfreeze unit; more equipment for Soil Conservation; many other new items. *More helpful information:* Fighting Common Insect Pests; Treatment of Common Stock and Poultry Ailments; Getting Started with Bees; and other useful aids to more profitable farming.

196 PAGES OF FARM NEEDS—dairy, poultry and stock supplies, metal corn cribs and grain bins, complete irrigation systems—illustrated, fully described, and priced at Wards money-saving prices. Fill out and mail coupon below for your *free* copy.

The 1949 *Garden* CATALOG

MORE THAN 800 VARIETIES of Flowers, Fruits, Shrubs, Trees, Vines and Seeds. 92 pages—generously illustrated throughout, with over 340 varieties pictured in natural color, hundreds more in beautiful rotogravure. Full of helpful hints on gardening, landscaping and orchard care. Zone map and planting tips make it easy to select varieties that will thrive in your community.

ONLY TOP-QUALITY STOCK OFFERED—tested and graded by experts to meet rigid standards—shipped prepaid from America's finest growers—and priced to save you money. Just fill out and mail the coupon below for your *free* copy.

MONTGOMERY WARD

Clip and mail this coupon NOW!

SF-19

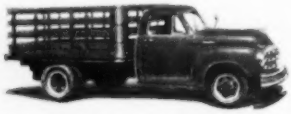
MONTGOMERY WARD
Please send my free copy of:
(Check either catalog—or both)

☐ the Farm Equipment Catalog.
☐ the Garden Catalog

Mail request to Montgomery Ward, Dept. SF-19, Chicago, Kansas City, St. Paul, Denver, Baltimore, Albany, Ft. Worth, Portland, Ore., or Oakland—whichever city is nearest you.

Name_____
(Please PRINT plainly)
Address_____ Route_____ Box_____
Post Office_____ State_____ Phone_____

Above: Studebaker ¾-ton, 8-ft. pick-up — there's a 1-ton, 8-ft. pick-up, too — also a ½-ton, 6½-ft. pick-up.



One-ton Studebaker with 9-ft. stake — also available on 1½-ton chassis.

The new 1½-ton Studebaker truck — shown with insulated milk body.

Studebaker 2-ton truck — shown with 14-ft. stock rack body.

Get a 1949 Studebaker truck! It's the newest and finest!

Most revolutionary change in truck design and engineering in many years!

THESE husky, handsome, new 1949 Studebaker trucks have the same kind of distinction as Studebaker's postwar cars!

They're sensationally new trucks in exterior design—and they excel just as conspicuously in handling ease, riding comfort and cost-cutting performance.

You don't worry about slippery running boards in bad weather. The broad, sure-footed steps of these pacemaking Studebaker trucks are snugly enclosed inside the doors of the driver's cab.

That cab, incidentally, is a postwar marvel of head room, hip room, leg room, wide-range vision, controlled ventilation.

Here, too, for the first time in a truck is real "lift-the-hood" accessibility. No standing on a box to get at the engine or ignition—no fumbling under the dash to adjust instruments and accessories.

Stop in at a nearby Studebaker dealer's showroom—see how nicely a 1949 Studebaker truck would fit into your requirements.

STUDEBAKER TRUCKS

NOTED FOR LOW COST OPERATION

© The Studebaker Corp'n, South Bend 27, Indiana, U.S.A.

New Congress

[*From page 63*]

the Midwest, would ask first for a support-price reduction as a way to avoid production and marketing controls.

Senator Aiken, who took a prominent part in writing the present farm price-support law, understands farming and the many problems of agriculture in the different sections of the country. He is strong in his thinking that any federal agricultural program and farm price support must be developed with a minimum of controls on farmers; that they are better qualified than any government agency to manage their own farming operations.

His warning is, "Support levels which are too high in relation to the amount that the market will take at a given price will inevitably lead to the control of farmers' operations by the government."

Oklahoma's Senator Thomas pronounces the nation's farm problem as almost wholly a "price problem." He says two things need to be done to the present price-support law. "First, the parity formula needs to be amended to include the cost of farm labor" (which does not enter into the present computation of prices paid to prices received). This would raise the parity price over what it is now.

"The other matter that needs attention is that Congress should raise the support level to place farmers more nearly on an equality with the labor and industrial segments of the economy."

Senator Thomas points out that he is for at least 90 percent of parity for farm products.

He says, "The present plan provides that the secretary of agriculture may, within his discretion, reduce the parity price support from 90 percent down to as low as 60 percent. If any secretary should prescribe a 60-percent-of-parity price support for any farm commodity, in my opinion, he will be prescribing a 60-percent standard of living for the farmers who grow that farm product."

Present C.C.C. charter provides for storage on farms

The old Republican leaders in Congress point out that the Commodity Credit Corporation already has given plenty of authority to supply all the storage needed in its business.

When I visited Mr. Hope, the retiring chairman of the House Agricultural Committee, at Garden City, Kansas, he explained this provision enables the C.C.C. to buy storage and set it up right on farms for actual farm storage.

Senator Aiken, too, points out that "the new charter for the Commodity Credit Corporation in no way destroys the authority of the C.C.C. to acquire, lease, or sell to farmers such storage facilities as may be necessary to take care of the products handled by the Commodity Credit Corporation.

"I'm wondering if farmers won't be better off under the present law which provides for storage right on the farms. Next summer, when grain loans are called, the C.C.C. can pay farmers for continuing to store the grain.

"Another possibility is that the Corporation is authorized to buy storage bins and set them up right on farms. This could be a good thing, because it is

[*Turn to page 66*

Yes! You can increase your annual earnings from every cow up to $24—by cleaning your separators with Dreft!

Dreft quickly dissolves, then easily rinses away milkstone. There's no milkstone left to clog discs and bowls, to cause uneven skimming and loss of butterfat into the skim.

Milkstone alone can steal up to 20% of your butter-fat—the production of one cow in five! So make sure you eliminate profit-stealing milkstone . . . with Dreft.

Dreft cuts bacteria count, too! Because amazing Dreft suds wash away the two biggest sources of contamination—milk-slime and grease. Get Dreft today!

How to clean your separator in 2 minutes flat!

1 Rinse cream from machine with a cup of warm water in separator bowl. Then pour tablespoon of Dreft into bowl. Add warm water (120°). Watch milkstone dissolve!

2 Let Dreft solution run through separator bowl. While bowl is emptying, brush inside and out with a soft brush. Also brush outside of spouts. Dreft rinses out completely!

3 Dismantle machine. No need for scouring. Simply pour scalding water over discs. Rinse other parts with warm water. Allow to drain dry. All done in 2 minutes flat!

With DREFT you can clean your MILKING MACHINE without taking it all apart!

Dreft gets milking machine clean in half the time—with half the work. No scrubbing of individual parts. You just flush *with a Dreft* solution, brush and rinse!

DREFT ADDS DOLLARS TO CREAM CHECKS

Save feeding time . . .
Push for Early Market . . .
with
"The Semi-Solid System"

Feed and water 50 hogs in 5 minutes a day or less. Get all your hogs to market weight in 6 months or less. That's how to *feed with speed.* Semi-Solid Pig Emulsion helps you do the job.

Check into the Semi-Solid System, the *master plan* of feeding sows, farrowing pigs and finishing hogs fast. The plan whereby *one man* can raise up to 1000 hogs on just 40 acres of land . . . and turn corn into extra dollars of profit.

Semi-Solid Pig Emulsion is the key to this whole hog raising program. Sows on the Semi-Solid System farrow 9-10 pigs per litter — wean 8-9 at almost 40 pounds apiece. And you feed with speed. Now's the time to study complete details on this *master plan* for raising hogs.

Feed with speed. Buy Semi-Solid PIG Emulsion from your feed dealer *today.*

CONSOLIDATED PRODUCTS COMPANY
DANVILLE, ILLINOIS

Send me your free hog handbook "Here are 40 Golden Acres on The Semi-Solid System".

Name_____

RFD_____ Town_____ State_____

"The Semi-Solid System"

Enables ONE MAN To Raise 1000 Hogs A Year On Only 40 Acres of Land.

New Congress

[*From page 65*]

pushing farm storage, and in the case of the feed grains, that's where they should be stored. It would coastitute a real reserve feed supply for every farmer who has a crib of C.C.C. corn on his place."

But it would appear that the new Congress will not be content with that half-hidden provision.

Mr. Cooley is sure his committee will support action to increase storage facilities for C.C.C. either on or off farms. The same point of view goes for Senator Thomas.

Administration's charges are labeled political propaganda

There is increasing opinion that the charges concerning limitation of storage permitted the C.C.C., hurled at the Eightieth Congress by the Truman Administration, has been nothing short of political propaganda. Before the new Congress gets around to making big changes in the present law, it may be recognized that the present charter isn't so far off the right track after all.

Concerning the possibility of an International Wheat Agreement, it is almost a certainty that another world agreement will be drawn up. The wheat agreement proposed last year collapsed when the United States Senate failed to ratify the agreement.

U.S.D.A. officials are hopeful that another agreement can be negotiated. Farm-minded members of Congress have pronounced the Senate failure to ratify the original agreement as little short of a crime. So if a new agreement can be put together, there is little doubt but that it will receive much more favorable treatment from the new Congress.

When *Successful Farming* contacted the new chairmen of the Agricultural Committees last month, both expressed hope that serious thought can be given to a long-range farm bill covering more than just farm price supports. One thing sure, neither the Aiken Bill nor the Hope Land Policy Act introduced in the last session of Congress will be given much consideration by the Democratic Congress.

Mr. Cooley pronounces the Hope Bill as controversial, and Senator Thomas says the Aiken Bill is confusing to the point that no two people agree on what the proposed bill means.

SUCCESSFUL FARMING

"Now we take the pie out of the oven—does it look like this?"

U.S.D.A. reorganization is old problem that's never solved

As to the much-talked of reorganization of the United States Department of Agriculture, Senator Thomas feels that every administration wants to "mess up," rearrange, and try to reorganize the Department of Agriculture. "But after all the changes, there are few benefits."

Mr. Cooley expresses an entirely different view. "I have maintained for many years that a study should be made of the Department of Agriculture. The functions of every division should be looked into. The U.S.D.A. hasn't had a going over for years.

"I would guess that the Agricultural Committees of Congress couldn't name all the divisions and bureaus in the department, and certainly not all of the functions of the department."

Opposition to combining Soil Conservation with Extension

There's widespread disagreement on the matter of combining the Soil Conservation with the Extension Service, as provided by the bill introduced by Mr. Cooley in the Eightieth Congress. Mr. Cooley says it would be to the best interest of the people and better service to farmers if all agencies in the land programs were combined. That's why he is for combining the Soil Conservation Service, the Extension Service, and the A.A.A. This session, he expects to introduce a new bill along this line.

Many of the other agricultural committee members and all but one of the major farm organizations have been opposed to such a move. Of the farm organizations, the Farm Bureau has stood alone in backing this measure. Representative Cliff Hope says, "I am opposed to turning the Soil Conservation Service over to the Extension Service. I think the present system is working well."

Farm cooperatives can rest easier with Ploeser's defeat

Farm cooperative leaders herald the defeat of Representative Walter Ploeser (Republican, Missouri), chairman of the House Small Business Committee, as a great victory for farm cooperatives. Mr. Ploeser has not been favorably inclined toward the cooperative movement.

So with the promotion of farm cooperatives as one of the main planks in the Democratic party platform, and with President Truman heartily in favor of them, co-ops can expect clear sailing.

One of the surest bets is that the margarine vs. butter battle will be renewed again. Chances are good that the federal regulations governing the sale and taxing of margarine will be changed.

Farm congressional leaders must learn value of unity

Despite the single political party control in Washington, these disagreements do not spell clear sailing for farm legislation. The situation certainly doesn't promise a reunion any time soon of the Farm Bloc, which in the past has stood back of agriculture's interests in Congress.

However, Washington observers feel that farm interests in Congress eventually will get back to working together again. They'll do that after the different regions—the South, the Northeast, the Midwest, and the West—finally find out how important it is to the American farmers that they all pull together. END

penta-chlorophenol — treat your posts!

STOP UNNECESSARY LOSSES—BUILD WITH "PENTA"-TREATED WOOD

Replacing fence posts takes time—time that can more profitably be spent doing productive farm chores.

Reduce *unnecessary* labor and save valuable work time! Treat your posts and other lumber with PENTA-CHLOROPHENOL—the chemical preservative that protects wood from termites and decay. Penta-treated posts last two to four times longer, and you can treat them simply and cheaply right on your own farm.

Start today to make all your work-time "Profit" time!

1. "Penta"-treated posts last longer.
2. It's economical to treat with Pentachlorophenol.
3. The "Penta" treatment leaves wood clean and easy to handle.

FREE BOOKLET!

Send today for free booklet entitled "Post Preservation Pays". It tells you how to treat posts at home—on the farm. Ask for booklet PE 2.

THE DOW CHEMICAL COMPANY
MIDLAND, MICHIGAN

DOW
penta-chlorophenol

Nursing increases a sow's demand for calcium and phosphorus. Her milk is nearly twice as rich in these minerals as cow's milk.

If sows are to nurse their young for fast, economical growth and maintain their own well-being, this increased demand must be fully met, not only with these two minerals, but with sufficient vitamin D for proper assimilation.

Give them well balanced rations containing ample calcium and phosphorus, and plenty of vitamin D. Such feeding often increases the sow's ability to produce milk and give young pigs the good start they need for good weight gains at low cost.

Make sure your brood sows aren't handicapped by the lack of sufficient Vitamin D. Whenever you buy feeds, concentrates or minerals look for the words, "Irradiated Dry Yeast" on the feed tag!

$1.00 FOR TRIAL PACKAGE OR ECONOMY 5 LB. SIZE $3.95

When you can't obtain feeds, concentrates and minerals containing Fleischmann's Irradiated Dry Yeast, ask your dealer for FIDY. Or send for the 1-lb. trial package ($1.00 in U.S.A.) or the 5-lb. economy size ($3.95 in U.S.A.). Both are postpaid. Include dealer's name. Economy-size contains enough vitamin D for about 40 pigs to market size and 6 brood sows for a year or about 6 calves and 8 dairy cows for a year. Feeding directions on container. Address as below.

Send for FREE booklet!

Send today for your free copy of "Vitamin D—Its Importance to Your Hog Profits!" Address Desk SF-1, STANDARD BRANDS INCORPORATED, *Agricultural Department*, 595 Madison Avenue, New York 22, N. Y.

Fleischmann's
F·I·D·Y
IRRADIATED DRY YEAST
RICH IN VITAMIN D FOR FOUR-FOOTED ANIMALS

It's not the cattle—it's you

[*From page 43*]

Fenske buys Western branded cows weighing 800 to 950 pounds, and often doubles his money in 100 days.

Last winter, for instance, he got a bunch for $12 to $14 per hundredweight. He sold some calfy cows for $24 and the rest somewhat later for a slightly higher figure. He realizes the risk of handling heavy cattle, but finds that, over the eight years he's been doing this, he's made more money than from 17 years of steer-feeding.

Fenske handles two bunches of from 100 to 120 head each year. The first bunch is unloaded at his place in October, where they run in stalk fields for 30 days. Then they go into the feedlot, where they get corn-and-cob meal, good hay in racks, silage, and mineral, plus a little supplement, which usually is linseed meal. He takes them off silage about 30 days ahead of marketing time.

HE GETS a second bunch in February and puts them right into the feedlot, where they gain from 2½ to 3 pounds per head daily. They are sold during May.

Fenske likes open cows, but sometimes gets fooled and finds some of them calfy. He prefers first-calf cows, but will take them if they've had no more than two. He dehorns the cows if they aren't too old; otherwise, he tips the horns.

Looks don't count very heavily with Fenske. The cattle come as blacks with white faces, brockle faces, and other color patterns. And, as far as finish is concerned, he believes the market taste for beef has changed, for people don't seem to want the "watery meat" found in prime stuff.

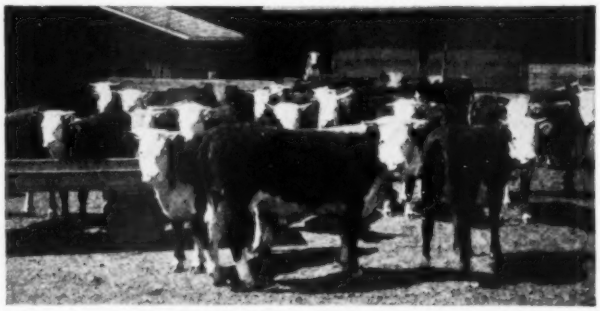
There are others who go for feeding heavy cattle but who want to carry their eggs in at least two baskets. One such feeder is Charlie Kreuger, of Martin County, Minnesota. In partnership with his son, he fills one lot in the fall with 2-year-old steers, weighing about 1,000 pounds, and the other with calves weighing from 450 to 500 pounds. In either case, they buy the best grade available.

SAID Kreuger, "You can make money fast, or lose it fast, with heavy cattle." Therefore, he hedges by feeding a bunch of calves which serve as a check if the market for heavy cattle goes to pieces.

Like Muir, he figures that he can get more gain from the same amount of feed when handling calves, but he likes the quick gain possibilities of heavy cattle. He said that he's bought them for $19 and sold them soon afterward for $27, "and that's nothing unusual."

"You know," reflected Kreuger, "a cattle feeder is a funny fellow. He'll tell you what he plans to do and then, an hour later, do something different from what he said. You have to act quickly."

The Kreugers feed their heavy stuff from 60 to 120 days, depending on the market, and sell them weighing from 1,200 to 1,250 pounds. The cattle are started on corn-and-cob meal (about ½ bushel per head daily), some shelled corn thrown on top, plus 3 or 4 pounds of commercial supplement. They also get a little silage and hay.



Heifers are preferred on the farm of Willard Shaffer, De Kalb County, Illinois. Many like heifers because they finish at lighter weights, while others won't have them

Harry Muir handles calves every year because there's less risk, and they make more gain per pound of feed. Some think calves are more trouble than they're worth

The calves are started on silage, with some oats thrown on top. Later, they get shelled corn and about 1 pound per head daily of commercial supplement. The Kreugers usually market their calves in July, keeping them in dry lot from buying until selling time.

Some cattle feeders think that the best times are past for feeding of heavy cattle. One person of this belief is Lester Forristall of Pottawattamie County, Iowa. For the past four or five years, Forristall has fed 2-year-olds, holding them about 60 days. Last fall, he sold the last of his heavy

> **The very essence of a free government consists in considering offices as public trusts, bestowed for the good of the country, and not for the benefit of an individual or a party.**
>
> —*John C. Calhoun*

stuff, preferring calves and yearlings for the more normal times. "Let the other fellow feed them and take the risk," said Forristall.

One man who likes the calf and yearling program is Jess Corey of De Kalb County, Illinois. He uses the calves to hedge against losses. For example, last February the cattle market broke. He wanted to get rid of his steers after 100 days on feed, but he had to hold them for 140 days and ride out the slump. Even tho somewhat disappointed over the outcome, he still had calves to fall back on.

Quite a few cattle feeders would rather take their chances on yearlings alone, and leave the calves for someone else to feed. For instance, there's Perry Farquhar of Page County, Iowa. He prefers yearlings to calves because they can handle rougher feed and "you don't have to baby them so much in the winter and don't have as much trouble with shipping fever." Farquhar's experience has been that sometimes he can get thin yearlings "for pretty near the same money that you'd have to pay for calves." He usually buys rather plain yearlings, for they cost less but, when finished, sell fairly close to the price of better stuff.

THEN there's the matter of heifers. Here again, what one feeder likes may be something his neighbor wouldn't have on the place. LeRoy Olson, De Kalb County, Illinois, is a consistent feeder of heifers, and he has a reason. Heifers, Olson finds, reach Good to Choice condition by the time they weigh 800 pounds, whereas a steer calf, to make the same grade, would have to weigh considerably more. He believes that this is a distinct advantage "when the market is going against you."

Olson gets good-quality heifer calves and winters them on 4 pounds of oats and ½ pound of commercial supplement per head daily, plus all of the alfalfa hay and corn silage they can handle. By the time the heifers go to pasture, they are on a full feed of ground ear corn. They are marketed by mid- to late-summer.

L. C. Howe, Piatt County, Illinois, also is a heifer feeder, but differs from Olson in that he sticks to Medium grade rather than high-quality cattle. One thing that Howe likes about Medium cattle is that they sell in the spring for

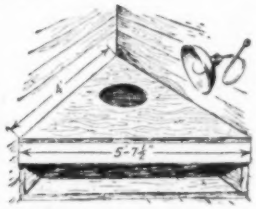
[*Turn to page 70*

FEEDER'S DIGEST

Winter Tips For Top Feeders

Electric brooders cut pig losses

Chilling accounted for the death losses of 41% of baby pigs that died in 11 midwest hog-producing counties last year. Authorities agree that heated brooders would have reduced this heavy loss substantially. They say that brooders will save an average of one pig per litter. With spring farrowing time not far off, now is the time to think about building brooders. Below we show a brooder made with a heavy plywood top. The 14" hole in the top takes the light assembly. Sides are 1" x 12"—the front strip is 1" x 4".



Proper feeding is another good way to reduce losses. *Swift's Sow and Pig Meal* helps produce larger litters of strong pigs. It is formulated for brood sows, and pigs up to 75 lbs. Then there is *Swift's Pig Feed* for the 75 to 120 pounders. After that you can finish your porkers on *Swift's Hog Fattener*. If you are feeding your own corn and other grains, *Swift's (43%) Swine Concentrate* is the feed you need to speed production. It provides *both* animal and vegetable proteins, plus essential vitamins and minerals needed to balance the ration.

"Blind" chute speeds loading

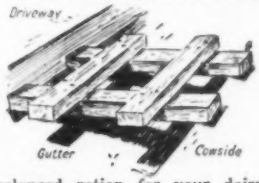
Cattle loading chutes are generally pretty much alike. But now someone has come up with an improvement. The only change from the ordinary type is tight siding along the incline. It is claimed that when the animals can't see that they are above ground level, that they walk right up without trouble.

And to load the kind of steers that carry money-making meat pounds, we recommend feeding *Swift's (36%) Steer Concentrate*. This gain-making feed provides the protein balance needed for best feeding results. It contains a balanced combination of high quality proteins, vitamins, minerals and other quality nutrients. Fed with your home-grown feeds, *Swift's Steer Concentrate* helps you feed out quality market animals at lower cost.

There's one in every dairy herd

Probably you have a cow that insists on standing in the gutter, but you can stop her with this simple gadget, as illustrated below. It is made of 2" x 4" as illustrated. It can be tipped back and out of the way when the barn is being cleaned.

A winter feeding program based on Swift's line of dairy feeds can add extra dollars to your milk and cream checks. You can keep productive levels high by feeding *Swift's (36%) Dairy Concentrate* with your own grains, silage and hay. It provides milk-making proteins, vitamins and minerals in a combination that gives you a fully



balanced ration for your dairy herd. If you do not have too large a supply of grain, you will want to feed *Swift's (24%) Dairy Feed* or *Swift's (16%) Dairy Feed*, depending on your grain supply and the quality of your roughages.

You can save milk by feeding your calves *Swift's Calf Meal* which supplies the growth nutrients which enable you to start the calves on a minimum amount of milk.

For profitable poultry and eggs

Ask your feed dealer about Swift's complete line of poultry feeds for growing chicks, laying hens, meat birds and turkeys. Whatever you feed on the farm . . .

SWIFT & COMPANY

Feed Department

Swift's FEEDS SPEED PRODUCTION OF MEAT · EGGS · MILK

Buy from the dealer displaying this sign

For Smokers with STRONG TEETH who bite off pipe-bits

Stembiter Yello-Bole is a practical answer for the pipe-smoker who ordinarily chews or bites through even the finest rubber pipe-bit. The Stembiter bit was made with the aid of the dental profession. Instead of going through just one channel, the smoke is diffused through three channels, which helps materially in cooling the smoke. Stembiter Yello-Bole, treated with honey, requires no "breaking in."

This picture of Honey-Girl is displayed in stores where Yello-Boles are sold. At right, Honey Seal which protects the honey in bowl of pipe. Look for it.

KAUFMANN BROS. & BONDY, INC.
630 Fifth Ave., N. Y. *Pipe-makers since 1851*

Not the cattle—it's you

[*From page 69*]

pretty close to the same price commanded by Good and Choice cattle.

That this plan of operation has paid out pretty well thru the years is shown by the fact that the Howe family now is in its fourth generation of handling Medium-grade cattle. Howe says that a lot of farmers feed Choice cattle because they like to look at them, but he feels that "it's pretty expensive looking."

He buys 800- to 900-pound heifers in October or November, and gets them up to a 100-days full feed before going to market in April. Their rations during this period consist of corn, silage, hay, straw.

BUT one cattle feeder who won't vote for heifers is Ben McNeely, of De Kalb County, Illinois. He'll take yearling steers every time, for he finds that if the market isn't right, he can go ahead and feed them for a while to a good advantage. But, if he had been feeding heifers under the same market conditions, they would soon be out of their class and become "cowey."

There are always stockmen who feed whatever appears to have profit possibilities. One such feeder is C. B. Watson, De Kalb County, Illinois. He buys whenever the time is right. He isn't so much concerned with the kind of cattle, except that he doesn't like heifers weighing over 500 pounds because the chances are strong that they'll be with calf.

Watson thinks there are three important things in feeding cattle: (1) how you buy, (2) how you sell, and (3) how you feed.

He thinks that feeding is the least important of the three, for you can do the best feeding job in the world and still lose money if you don't buy and sell right. Watson wonders why some cattle feeders, "despite hell and high water," stick to a fixed selling time. He argues that, if the market now is right, why hold them another 30 days, just because you originally figured on keeping them that long?

Watson likes to hit the market the day after a holiday, for the receipts on those days are inclined to be light because a lot of farmers don't like to stay home on holidays and get them loaded. His experience has shown that these "hot" markets often come on May 31, July 5, and the day after Labor Day.

TELLING a man what kind of cattle to feed is a pretty ticklish business. There may be certain undisputed truths, such as risk and investment, but after that it's pretty much an individual proposition.

F. D. Hartman, an Illinois cattle feeder, summed it up pretty well, as follows:

"When I started farming, I was confronted with the problem of what kind of cattle to feed. I looked around the community and found that buying cattle was a lot like buying machinery or selecting a wife—some men like one kind and some like another kind.

"One of my neighbors, who is a good cattle feeder, and always feeds the cheaper kinds, told me never to feed Choice cattle or I would lose my pants someday. Well, I didn't take his advice, but started feeding Choice calves. Since then I have made several $12 to $15 margins, and last year I made a $20 margin—so I feel now that I could afford to lose a pair of pants occasionally if I had to." END

are your furnishings hard to get along with?

this book helps you make them friendly companions

Perhaps all your furnishings need is rearrangement for proper balance. Balance means selecting furniture pieces in scale with each other and in proportion to the room. Successful Farming's Home Furnishings Ideas book is your expert guide to the intelligent use of balance and these 5 other important elements of well-planned furnishing and decorating.

Line and form—can make short rooms taller, tall rooms shorter.

Texture—the roughness or smoothness of your furnishings. The feel they give your room.

Design—arrangement of lines, forms, colors, textures.

Color—a magic ingredient which, when expertly blended, can do wonders for your home at little cost.

Harmony—all furnishings, colors, textures should go together.

Give your home added beauty, extra comfort and convenience, more warmth and graciousness.

ORDER YOUR COPY of Successful Farming's Home Furnishings Ideas book today from 5001 Meredith Building, Des Moines 3, Iowa. Or ask for it at department stores listed on page 94. Only 75c.

Successful Farming

SAVE TIME AND WORK! MAKE EXTRA MONEY!

EASY TO OPERATE

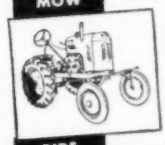
SHAW "DU-ALL" and "PEPPY PAL" GARDEN TRACTORS

PLOW

HARROW

CULTIVATE

MOW



RIDE

These sturdy walking and riding tractors ideal for dozens of uses around the farm, orchard, garden, golf course, estate and poultry farm.

DO DOZENS OF JOBS
Shaw Du-All or Peppy-Pal tractors do many jobs quickly and easily. Plow, cultivate, harrow, mow, disk, bulldoze, spray, grind, haul and saw wood. New uses discovered every day.

BUILT FOR RUGGED WORK
Sturdy, extra-strength construction means low upkeep, long life. Patented tool control allows quick shift for crooked rows. Attachments easy to change with new "Jiffy Hitch."

CHEAP TO OPERATE
Operates on few cents an hour. Soon pays for itself in time and labor-saving plus low initial and operating costs.

LOW FACTORY PRICES
Buy direct or through your dealer! Almost anyone who has a garden can afford a Shaw Du-All or Peppy-Pal. Full year's guarantee.

RIDING TRACTORS
Four models, from 5 to 12½ H.P., 58 in. wheelbase, 36 in. wide, 24 in. plant clearance. Hand or electric starter. Improved steering device, brakes enclosed in differential housing shaft. Standard hitch for trailers and wagons. Plow, harrow, cultivator, cutter bar, snow plow, bulldozer available.

PROMPT SHIPMENT
No waiting—order now for immediate delivery.

RW-2

SHAW MFG. CO.

FREE—Illustrated folders giving complete details and price lists. Write today:

4801 Front St., GALESBURG, KAN.
660M North 4th St., COLUMBUS, O.

Can you afford $25 per ACRE LOSS from CORN BORERS?

Fight this costly menace . . . get 'em before they ruin your crop. Authorities agree that "Plowing under corn stalks, stubble and all trash is the most effective corn borer control" . . . but it must be *clean plowing.*

The **LANTZ KUTTER COLTER**
Reg. U. S. Pat. Off.

assures a good, clean job of covering . . . once over. Easily attached to a mouldboard plow, it helps the plow cut through and bury tough hybrid roots and stalks, soybeans, trash of all kinds. Amazing results reported by thousands of users. A finely engineered product.

HANDLE BALED HAY FASTER . . .

than an elevator with the *Lantz Original Flexible-Grapple Hay Fork.* It is also faster and cheaper for loose hay.

WRITE today for literature and name of nearest LANTZ dealer.

LANTZ MANUFACTURING CO., INC.
Dept. 20 Valparaiso, Indiana

Burpee Hybrid TOMATO

Seeds FREE

Here's the amazing new Tomato all America is talking about! For better quality, bigger yield—20% over Marglobe or Rutgers. Smooth, round, heavy, scarlet. For garden, market, canning, shipping. Seeds very valuable, but we'll mail you 10 free if you send stamp for postage.

Burpee Seed Catalog Free—Tested, guaranteed vegetable and flower seeds.

W. ATLEE BURPEE CO.
510 Burpee Bldg. Philadelphia 32, Pa. OR 510 Burpee Bldg. Clinton, Iowa

Write Today!

Weatherproof forage

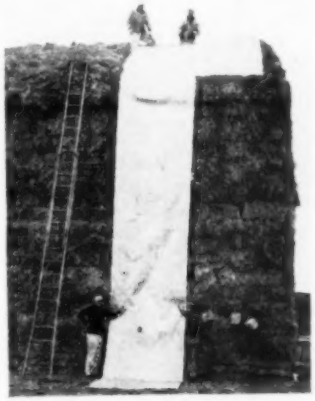
MANY farmers who use the weatherproofing method described below get fine results. In fact, they build bale stacks to the same size each year so that material needed to hold waterproofing in place can be used again.

Weights attached to woven wire and placed over wide widths of fiber-reinforced paper have withstood the worst kind of storms.

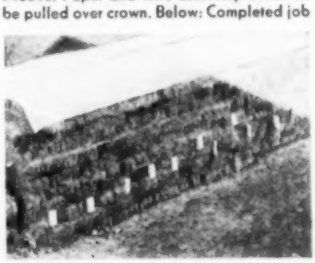
Here's how: Extend the top layer of bales 10" or 12" beyond stack to form an eave. This will keep rainwater from running down the sides. Then form a crown by running a row of bales down the center of the stack and place loose hay from the crown to the shoulders.

Cut strips of 6' or 7' waterproofing and strips of fencing to same length. They should be long enough to extend over the eaves. Attach 3 weight wires to fencing. Have them long enough so that weights can be attached to them from the ground. Place wire over the paper and tie the paper and wire together with binder twine at several places along the edge and at one end. Then pull the assembly to top of the stack, attach weights.

Be sure that each section of the waterproofing is applied with at least a foot of lap. When the second section is in place, twist adjoining weight wires so as to lock sections together. The weight system should be used because the hay settles some.—*Ralph Anderson.*



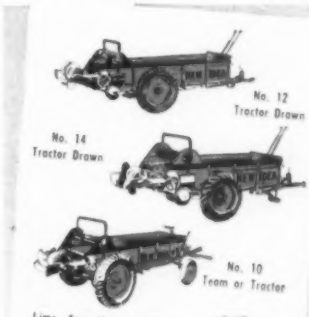
Above: Paper and wire assembly about to be pulled over crown. Below: Completed job



Soil Improvement is Your "Social Security"

BUILD UP FERTILITY . . . create new crop wealth year after year by *regularly* manuring your land — that's *your* soundest "income insurance." And that's where a NEW IDEA Spreader stands you in best stead. These advanced machines shred, pulverize and distribute manure with unrivaled efficiency. Every load is made to yield *fullest* fertility value to your soil. At lowest possible cost per load, too — because of their quick, easy operation and long-lived dependability.

Today's NEW IDEA Spreaders combine exclusive features developed over 50 years of leadership. Ask your NEW IDEA dealer to explain them in terms of benefits to you. Mail coupon for free descriptive folders.



Lime Spreading Attachment
A simple, inexpensive attachment makes your NEW IDEA spreader an equally efficient lime spreader. Close-to-ground delivery assures excellent distribution with least possible waste.

NEW IDEA
DIVISION
AVCO Mfg. Corporation
Dept. 380, Coldwater, O.

Send free illustrated folders on:
☐ 2-wheel Spreaders ☐ 4-wheel Spreaders

NAME_____

ADDRESS_____

50 YEARS OF PROGRESS WITH KESTER SOLDER

The present type of cored solder used by industry was first made by J. F. Kester in 1899. From the simple beginning of its first application it has continued to grow by keeping pace with new techniques as demanded by industry.

Standard for Industry and Home Since 1899

Over 100,000 Types and Sizes

of KESTER Flux-Cored SOLDER

Radio, Television
Kester Rosin-Core Solder is standard in the radio field.

Automotive
Mechanics and manufacturers alike insist upon Kester.

Electrical, Electronic
Kester "Specialized" and Rosin Core Solders are standard.

Free—Technical Manual. Send for Kester's new 28-page manual, "Solder and Soldering Technique." A complete analysis of the application and properties of soft solder alloys and soldering fluxes.

Agricultural
Kester Solders... the farmer's standard for half a century.

Homecraft
All hobbycraft workers and home repairmen use Kester.

Industrial
Kester Solders have served industry for half a century.

1899 50th Anniversary 1949

KESTER SOLDER

KESTER SOLDER COMPANY • 4201 Wrightwood Avenue, Chicago 39, Illinois
FACTORIES ALSO AT NEWARK, NEW JERSEY • BRANTFORD, CANADA

CARNATIONS
From Seed • • • SPECIAL OFFER
100 SEED, CHOICEST MIXED COLORS 10c
Send 10 cents Today for this Special Offer and I will include my 79th Annual Seed and Nursery Catalog absolutely **FREE**
R. H. SHUMWAY SEEDSMAN Box 665 Rockford, ILL.

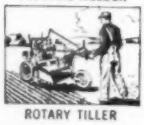
STAHELIN'S Big, Sweet, SCARLET BEAUTY
STRAWBERRIES
Preferred by growers and home gardeners; also New Superfection, the best Everbearer. **FREE CATALOG**
STAHELIN'S NURSERY, Box J1. Bridgman, Michigan

Be sure to read Successful Farming's advertising guarantee on the index page.

POST HOLE DIGGER

MOWER

ELECTRIC WELDER



ROTARY TILLER

MANY MACHINES IN 1

The Most Diversified Farm Machine Ever Built

Make more money the year 'round with the World Famous OTTAWA Buzz Master. Basic unit cuts brush and saplings as it pulls itself, saws down trees and bucks them where they fall. Has 7 H-P standard motor. Clears land fast and easy for pastures and field crops. Labor saving attachments available include: 2,500 watt generator to furnish electric power anywhere, electric welder for building and repairs, 10 x 36" post hole digger, 25" rotary tilling attachment, 48" sickle bar, cordwood bench saw and flat pulley for many belt jobs. Other useful attachments being developed. Robert Johnson, Missouri, spends full time with custom work and can't keep up with orders. Plenty of money to be made in this field. Can load machine into truck by its own power. Buzz Master is more than a name—it's a guarantee. Better get your Buzz Master now. There is none like it and it costs too little to do without. Sold direct to user. Write for FREE printed matter and low prices.

The Greatest Name in Saws **OTTAWA MFG. CO.,** 6-923 **Penn St., Ottawa, Kansas**

Calendars

[*From page 20*]

But back in ancient days, calendar-making was pretty much a hit-or-miss affair. The word itself is derived from *calendium*, denoting the commencement of the months. In the language of ancient Rome, this was called *dies calendae*, meaning days on which "calling out" should occur during the year.

This "calling out" took place upon the reappearance of the small crescent after a new moon. Even today, this remains the way of announcing a new month in some remote places in the world.

"Everybody's in a hurry" is title of this humorous view

When it was time for the "calling out," appointed priests, seers, and other wise men mounted to the roofs of public buildings and strained their voices to announce that a new month had arrived.

BUT occasionally the weather played the callers a dirty trick. It sometimes was too cloudy for these wise men to see the crescent that followed a new moon. When that happened, they were allowed to make calculations on the basis of their past observations. This got to happening pretty often, and it became more convenient to write down a few figures and make the announcement from the ground than to climb atop a building and call out that a new month had arrived.

This pretty girl is "Looking for You" on 1949 calendar

Thus, in place of the public proclamation from the housetops, the calendar came into use, containing the calculations of the "calling days." The publication of the arranged calendar matter and the constant improvement were due chiefly to the efforts of early wise men. The first calendars to be printed on paper appeared about the year 1400.

At first, dates only were shown on

printed calendars. Then some of the churchmen thought it would be a good idea to indicate the special religious days. It would help the people to remember. So on went special mention, in one form

Animal cartoons are used to catch everybody's eye

or another, of the days for worship, feasting, fasting, and other devotions.

Next, the farmers and the fishermen thought the calendar could help them out, too. So calendar makers, who by now were learning a little more about the habits of the sun and moon, got busy. They included various phases of the moon on each month's page. This was to tell the farmers the best time to plant crops, butcher meat, and do other tasks they thought were influenced by the moon. Probably there is an old-timer or two in your neighborhood yet who follows this system.

FOR the fishermen, the calendar men put tiny fish outlines under certain dates. These were supposed to point out the best angling days. While this system wasn't foolproof, it did provide a good alibi for the fellow who failed to catch anything. He could point to the calendar and say it had predicted that fishing would be poor that day.

Gradually, additional information of special help to farmers was tacked onto the calendar. Today, in addition to the pretty pictures and advertising messages, mentioned earlier, you'll often find tables of weights and measures, record-keeping spaces, safety tips, first-aid and fire-prevention advice, Bible verses, references to historical events, and countless other data that make your calendar so entertaining and valuable all year long.

For centuries after ancient astronomers first observed a full moon and plotted a month, the calendar was in constant change. The tough problem was to

[Turn to page 74

"Sitting Pretty" says title of this '49 calendar beauty

16 plans from which you can select the farm building plans you need!

1-CAR GARAGE & SHOP. Very popular, easy to build. Has workbench. Inexpensive.

JOHNS-MANVILLE ASBESTOS FLEXBOARD

Time-tested sheet material of asbestos and cement, can be used outdoors, indoors . . . is rotproof, rodent-proof, fireproof.

Saws and nails like wood, never needs preservative treatment. So flexible it can be used on curved surfaces.

Learn all about this amazing material in 20-page book, "Flexboard on the Farm." Coupon will bring you a copy FREE.

Easy to follow . . . easy to read! Johns-Manville co-operates with the Better Farm Buildings Association to insure you the most modern and efficient construction. Fill out coupon carefully . . .

To provide you with construction plans of the best possible design, leading agricultural engineers, agricultural colleges, and farm building authorities have formed the Better Farm Buildings Association.

New, up-to-date plans include all the latest research and recommendations of the U.S.D.A.

Johns-Manville wholeheartedly supports this project and through the Association makes available to you drawings of 16 buildings, engineered to include time-tested fireproof materials such as Asbestos Flexboard described at left.

Drawings are full-sized, 17 x 22 inches, completely detailed. Include exact specifications which you or your builder can easily follow. Cost only $1 per building, complete. Please indicate your selections on coupon below.

***FREE* book on Flexboard on request.**
Coupon below explains how to order plans!

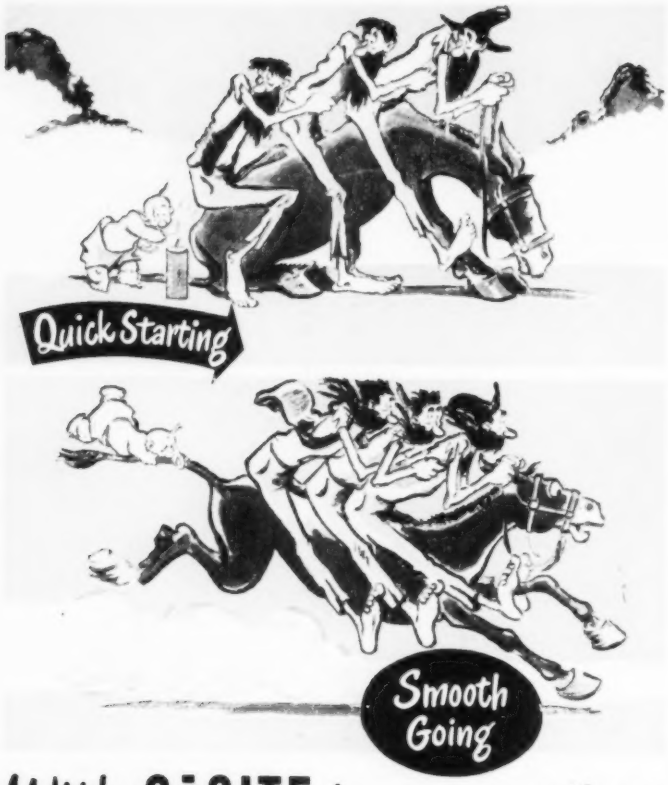
JOHNS-MANVILLE,
Dept. SF-1, Box 290, New York 16, N. Y.

I enclose, $..... Please send me a complete set of actual working drawings, 17" x 22", at $1.00 per set for each of the buildings checked below:

- ☐ 20-Cow Dairy Barn (1 story)
- ☐ 20-Cow Dairy Barn (2 story)
- ☐ Milking Parlor & Milk House
- ☐ Garage and Work Shop
- ☐ Roadside Market Stand
- ☐ All-Purpose Barn
- ☐ Colony Hog House
- ☐ Tobacco Curing Barn
- ☐ Machine Storage Shed and Repair Shop
- ☐ 3-Bedroom Farm House
- ☐ Milk House
- ☐ Laying House
- ☐ Cattle Feeding Shed
- ☐ Small Airplane Hangar
- ☐ Arched-Roof Brooder
- ☐ Multiple Poultry House
- ☐ Send me a FREE copy of book "Flexboard on the Farm."

Name _____
Route _____ City _____
County _____ State _____

JM Johns-Manville BUILDING MATERIALS



With CASITE in your engines

JUST PRESS the starter—and whoosh—your car, truck or tractor will go on coldest winter mornings.

Just relax—and you'll keep going briskly, steadily—you'll get that smoother, sweeter performance you've been looking for.

And thousands of miles from now, you'll still have plenty of power. Casite cuts engine wear because it improves lubrication. No matter what kind of motor oil is used, Casite gets it around quickly and into the tight spots. Get Casite and go!

THE CASITE CORPORATION · HASTINGS, MICHIGAN

Casite Division, Hastings Ltd., Toronto

Calendars

[*From page 73*]

bring the man-made calendar and the solar seasons and years together. The seasons—then as now, were of great importance to the farmer, and the attempts to balance the calendar usually hinged on having the seasons fall in the right place.

THE Egyptians are supposed to have placed the first day of their calendar with the rising of Sirius (the Greater Dog Star) in 139 A. D. (our calendar time, that is). But their year of 12 months of 30 days and 5 days grouped at a year's end didn't quite square with the farmers' seasons. But it worked out all right in the long run, for the Nile River farmers found that after a mere 1,470 solar years, New Year's Day had worked right around the seasons and back into place.

In the time of Julius Caesar, the civil equinox differed three months from the astronomical. Thus, the real winter months were carried back into the autumn, and fall months ended up in the summer. This had Roman farmers harvesting wheat in October. Such a calendar in this country now would have you cultivating corn in October instead of harvesting it.

To straighten things up, Caesar originated the Julian calendar, effective as of January 1, 46 B.C., more than 700 years after the legendary founding of Rome. This calendar, in which the months had the same names, order, and length as now, was slightly modified by Augustus. Then it was discovered that Caesar's year was 11 minutes and 14 seconds too long, or one day over in every 128 years.

Next, Pope Gregory XIII tried to restore the equinox to its proper place.

> **Parents should not make too much fuss when a child tells his first lie. He may do better with practice.**
>
> —*Herbert V. Prochnow*

He directed that the Feast of St. Francis on October 5, 1582, be reckoned as October 15. This action, along with a few later changes to correct errors, established the Gregorian calendar, the one now in general use in most of the world. It was adopted in Great Britain and in the English Colonies in America in 1752.

HOWEVER, there are many people in the world who wouldn't agree with your calendar's calling the new year "1949." The Mohammedans count from the Hegira (flight) of Mohammed from Mecca to Medina, which occurred Thursday, July 16, 622 A.D. To members of this religion, the year might be 1526.

The Jewish year actually is 5709, and their New Year's Day does not coincide with the calendar's January 1. The Chinese celebrate their New Year several months behind the usual holiday date in other parts of the world.

But for all its uncertain past and day-to-day existence, the calendar is here to stay, simply because we can't do without it. With its wealth of facts and full-color dress of today, it's a joy—if not forever, at least for 365 days in each of three years or 366 every fourth year. END

DEPENDABLE

CHAMPION

SPARK PLUGS

America's Favorite →

First-hand experience with spark plugs in all kinds of engines and under all operating conditions qualifies the modern American farmer as a true expert. Most farmers use dependable Champion Spark Plugs, as outstanding sales leadership in rural America attests.

—in fact Champions excel and outsell throughout the world, proof positive that they represent the ultimate in quality, value, performance and dependability.

FOLLOW THE EXPERTS . . . DEMAND DEPENDABLE **CHAMPION** SPARK PLUGS

here's how

ZINC

SERVES YOU

Galvanizing (Zinc-Coating) guards your farm . . . protects your property . . . saves you money. For as long as iron or steel is coated with Zinc, *it cannot rust!* For long-time, low-cost service, choose galvanized buildings and equipment... "Sealed-in-Zinc" against rust.

FREE BOOKLETS

Fully illustrated and packed with practical information on galvanized sheets and Metallic Zinc Paint. Send for them, *today!*

AMERICAN ZINC INSTITUTE
35 East Wacker Dr., Chicago 1, Ill. Rm. 2599
Send me without cost or obligation the illustrated booklets I have checked.
☐ Repair Manual on Galvanized Roofing and Siding.
☐ Facts about Galvanized Sheets.
☐ Use of Metallic Zinc Paint to Protect Metal Surfaces.
Name_____
Address_____
Town_____ State_____

THE FARM

Quizbox

By Gus Larson

HOW'S your nose for news? This quiz will tell how you keep up with headlines, both on farm topics and others.

Score 5 points for each correct reply. If you score (a) 90 to 100 points—you must be a news hound. (b) 75 to 85 points—you don't miss much. (c) 50 to 70 points—good enough. (d) 30 to 45 points—just made it. (e) 25 points or below—better start reading the headlines.

1 Worried about the slippery roads this winter? If so, you will be interested in the new tire tread which is excellent for slippery and icy roads. The antislip secret is that the new tread contains (a) flint (b) sand (c) rock salt.

2 A shy female reader writes: "My persimmon tree just doesn't get around to bearing any fruit. What's wrong?" How can she get her tree to yield? (a) plant more trees (b) prune it (c) lime the soil.

3 It was Thomas Edison who invented the moving-picture camera. In what year was the first motion picture shown before a public audience? Was it in (a) 1910 (b) 1920 (c) 1895?

4 The earth is a mighty big ball, but it can capsize, states a New York engineer. He believes that the last time the earth tipped over it caused Noah's flood. Do other scientists (a) agree (b) disagree?

5 Eastern farmers have a brand-new way to wash eggs. The trick is to first wash the eggs in hot water (141 to 160 degrees) and then to immerse them in a detergent solution. (a) true (b) false.

6 One of the most valuable relics of the church is a thorn from Christ's crown. Recently this thorn was (a) stolen by a thief (b) sent to Chicago (c) burned.

7 We all know that women generally decide what kind and how much will be paid for things that go into our homes and on our backs. But who spends most of the cash in small towns? (a) men (b) women.

8 Foot trouble can cause backache, headache, premature wrinkles, and general fatigue. Which have the most foot trouble? (a) children (b) men (c) women.

9 Rosa multiflora (Asiatic rose) is a good hedge fence which will turn livestock and provide berries for wildlife. This fence grows to height of (a) 3' (b) 8' (c) 2'.

10 More than 30 V-2's (German rockets) have been fired skyward from the White Sands Proving Ground. Can you guess how many miles high the best of these rockets went? (a) 10 miles (b) 50 miles (c) 114 miles.

11 Eighty out of every 100 farms now are electrified. But a short time back, not many Hawkeye farmers read by electric lights. How many Iowa farms had electricity in 1935? (a) 15 out of 100 (b) 50 out of 100 (c) 70 out of 100.

12 John Quincy Adams was the first president to wear long trousers at the inaugural and he was the first to have a billiard table. Who was the first chief executive to speak on the radio? (a) Taft (b) Wilson (c) Coolidge.

13 Many farm children have borderline anemia. The basis for that statement is a recent Wisconsin Experiment Station study. This condition exists because they (a) work too hard (b) do not eat balanced meals (c) stay up too late.

14 When electricity was first installed in the White House in 1891, the president and his family were afraid to turn off the lights. Lights were left burning all night. This president was (a) McKinley (b) Garfield (c) Harrison.

15 Diabetes strikes when one's body fails to maintain a proper supply of insulin. Insulin injections are not always necessary for the diabetic. In some cases the disease may be controlled by diet and exercise. Statements are (a) false (b) true.

16 Most farmers don't bother about making wills, but they should. Wills can avoid lots of trouble and expense for those left behind. Even the simplest will must be (a) typewritten (b) 100 words long (c) written.

17 Neighbor Curtis Johnson said: "Hatching eggs can be held at zero temperatures and below for several hours and they still will hatch." Was neighbor Johnson (a) wrong (b) right?

18 Last September, the Grand Army of the Republic held their Eighty-second National Encampment. How many survivors were living? (a) 6 (b) 43 (c) 1,110.

19 Anybody with enough sense to pound sand in a rat hole knows that a well should be uphill from a septic tank. How far away should the septic tank be from the well? (a) 25' (b) 100' (c) 50.'

20 If a hog has worms, there's plenty of feed wasted. The worms like corn and eat a lot of it. Of every three ears fed to an infested hog, how many do the worms eat? (a) 1 ear (b) 2 ears (c) 2¼ ears.

Answers on page 86

"I've found a low-cost feed combination that gets me big litters of healthy pigs—and puts weight on 'em *FAST!*"

— says Wendell Middendorf of Morgan County, Illinois

"My hogs averaged 241 lbs. in less than 6 months!"

"On September 9 I sold 49 hogs farrowed between March 9 and 18. They averaged 241 pounds. On April 6 they were started on a pig meal made with MoorMan's Hog Mintrate 45. They had free access to MoorMan's Hog Mineral Blocks and were in good alfalfa pasture. Total feed consumed was 428 bu. of ground corn, 211 bu. of ground oats, 1,415 lbs. of soybean oil meal and 1,480 lbs. of Hog Mintrate 45. *This feed combination gave me more gain, at less cost and with less grain, than any I've ever used.*"

Here's why Mr. Middendorf produced a pound of pork with only 3 pounds of low cost feed:

(1) MoorMan's Hog Mintrate 45 is extra rich in animal and sea food proteins. (2) Its 6 proteins and 14 mineral ingredients are blended in the proper proportion to enable hogs to make the best possible use of every mouthful of feed they eat. (3) It *also* contains 3 vitamins — Niacin, the anti-pellegra vitamin, to prevent and overcome nutritional enteritis; Riboflavin, the growth vitamin; and Vitamin D, the "sunshine" vitamin, for winter feeding.

While Hog Mintrate 45 contains MoorMan's Complete Hog Minerals, Mr. Middendorf, like thousands of other good hog feeders, kept MoorMan's handy-to-feed Hog Mineral Blocks before his hogs to take care of an abnormal craving for certain minerals some hogs may have.

Remember—every MoorMan product is so complete, so well balanced, so highly concentrated, a little *always* goes a long way. Ask your MoorMan Man or write Moorman Mfg. Co., Quincy, Ill.

MoorMan's

Since 1885

CUSTOM-MADE MINERAL SUPPLEMENTS AND PROTEIN CONCENTRATES

—developed and proved on the world's largest mineral experiment farm.

6-Burner (main illustration), 1 or 2 ovens—40"

4-Burner Divided Top 40" or 36"

4-Burner Cluster Top 40" or 36". Bungalow models also, with oil or coal-wood heating section.

COMPACTO Space-saver 21" wide

AMERICA'S EASIEST RANGE TO KEEP CLEAN

Specially Designed For LP-Gas*

Now home makers beyond city gas mains can enjoy the utmost in cooking convenience and economy! The new Caloric, designed for LP-Gas, has every feature for fully automatic cooking.

Flavor-Saver Dual Burners "measure" *exact* heat, save pot-watching, save up to 39% of your gas. All burners guaranteed for life.

Automatic Oven Time Control cooks meals without attention. Gas turns on and off at time you set.

Porcelain enamel inside and out, Hold-Heat Oven Seal, Removable Broiler and many other features make Caloric America's biggest range value. Ask your dealer about Caloric Automatic Ranges, built to CP Standards, now available for LP-Gas—or write, *Caloric Stove Corporation, 1209 Widener Bldg., Philadelphia 7, Pa.*

**Often called "bottled" or "tank" gas. LP-Gas never fails. Gives instant heat at turn of valve.*

Ultramatic **Caloric** Automatic Gas Ranges

REG. U. S. PAT. OFF.

Oven done!

[*From page 41*]

Deviled Swiss Steak

Mix . . . . . **½ cup flour**
1 tablespoon dry mustard
Pound . . . **1½ pounds 1-inch-thick round steak**
Season with **salt** and **pepper**
Brown in fat; place in baking dish.
Add . . . . . **1½ cups canned tomatoes**
1 cup sliced onions
¼ cup green-pepper rings
1 carrot, sliced
2 tablespoons Worcestershire sauce
1 tablespoon brown sugar
Cover; bake at 375° 1½ hours.

Honey Glazed Carrots

Scrape 9 medium carrots
Cut lengthwise; place in greased dish.
Mix . . . . . **3 tablespoons honey**
3 tablespoons melted butter
2 tablespoons diced parsley
½ teaspoon grated orange rind
¼ teaspoon salt
Pour over carrots; cover dish.
Cook in moderate oven (375°) 1½ hours.

Cheese-Stuffed Baked Potatoes

Cut slice from tops of **6 baked potatoes**
Scoop out insides; mash.
Add . . . . . **3 tablespoons butter**
1 teaspoon salt
½ teaspoon pepper
hot milk to moisten
¼ cup grated nippy cheese
¼ teaspoon paprika
Mix well; refill shells.
Sprinkle with **grated nippy cheese**
Return to oven until cheese melts.

Self-Iced Cupcakes

Fill greased muffin tins ½ full with **plain cake batter**
Sprinkle finely chopped nuts, or **chocolate bits,** or **shredded coconut** on tops
Bake in moderate oven (375°) 20 minutes.

Meat Balls in Barbecue Sauce

Form 1½ pounds seasoned ground beef into large balls
Brown in hot fat.
Combine 1 8-ounce can tomato sauce
½ cup water
¼ cup vinegar
2 tablespoons sugar
1 teaspoon chili powder
⅛ teaspoon salt
¼ cup finely chopped onion
Simmer until thick; pour over meat.
Bake 45 minutes in hot oven (450°).
Baste meat balls occasionally with sauce.

Oven-Style French Fries

Cut . . . . . **2 pounds pared potatoes** in long, narrow strips
Place in shallow baking pan.
Sprinkle salad oil over potatoes
Bake in hot oven (450°) 45 minutes.
Turn them once or twice during baking.
Salt potatoes to taste before serving.

Celery Seed Pin-wheel Biscuits

Roll standard biscuit dough ¼ inch thick.
Brush with **melted butter**
Sprinkle with **celery seed and grated cheese**
Roll up; cut in ½-inch slices.
Bake in hot oven (450°) 15 minutes.

1½-hour oven meal 375°
(*Serves 6*)

Honey Glazed Carrots — Self-Iced Cupcakes
Deviled Swiss Steak — Cheese-Stuffed Baked Potatoes

45-minute oven meal 450°
(*Serves 6*)

Meat Balls in Barbecue Sauce
Oven-Style French Fries — Celery Seed Pin-wheel Biscuits

[*Turn to page 80*

Use it-for pennies a month!

ONLY

S.O.S

Magic Scouring Pads

CLEANS AND SHINES ALUMINUM

is just as good as S.O.S for cleaning pots & pans

easier! faster! better!

Ask Mother, She Knows . . . Clabber Girl is the baking powder with the ***balanced*** double action . . . Right, in the mixing bowl; Light, from the oven.

Guaranteed by Good Housekeeping

CLABBER GIRL
Baking Powder

NEW COOK BOOK
in color!

for those who bake at home

32 pages of quick recipes!

DON'T WAIT—Send today for your copy! New cookbook contains modern techniques—step by step *illustrated* directions . . . shows how to make breads, rolls, dessert breads quickly with Fleischmann's Fast Rising Dry Yeast.

STANDARD BRANDS Incorporated
BOX B, BROOKLYN 1, N. Y.

I enclose 25¢ for your new 32-page cookbook "When You Bake."

Name_____

Address_____

City_____ State_____

HH-1

Oven done!

[*From page 79*]

Quick-Baked Beans With Bacon

Serves 6 to 8

Combine 2 **16- to 18-ounce cans pork and beans**
1/4 cup brown sugar
1/2 teaspoon mustard
1/2 cup catsup
2 small onions, thinly sliced
6 slices bacon, diced
1 teaspoon Worcestershire sauce

Bake in greased casserole at 350° (moderate) 30 minutes. Uncover; bake 15 minutes longer.

Cabbage Creole

Serves 6

Cut.....**1 large head cabbage** in eighths
Cook in small amount of salted water just until tender.
Arrange cabbage in greased baking dish.
Combine together over low heat:
1 cup canned tomatoes
1/4 cup chopped onion
1 teaspoon sugar
Thicken with paste of
2 tablespoons flour
2 tablespoons water
Stir in....**1 cup light cream**
Pour hot sauce over cabbage wedges.
Sprinkle..**1/2 cup buttered, toasted bread cubes** on top
Bake in moderate oven (350°) 45 minutes.
Sprinkle..**1/2 cup shredded cheese** on top during last 15 minutes of cooking.

Date-Bran Bread

Makes one 5- by 9-inch loaf

Combine **1/2 cup molasses**
1 egg, well beaten
1 cup milk
Mix.....**1 1/2 cups bran**
2 cups whole-wheat flour
3 teaspoons baking powder
1/2 teaspoon salt
1/8 teaspoon soda
Stir in dry ingredients; mix only until flour is dampened.
Add.....**2 tablespoons melted fat**
1/2 cup chopped dates
Bake in greased bread pan in moderate oven (350°) 45 minutes.

De Luxe Apple Dumplings

Makes 6

Make syrup of
2 cups sugar
2 cups water
1/2 teaspoon cinnamon
1/4 teaspoon nutmeg
Add.....**3 tablespoons butter**
Pare and core
6 large apples
Sift.....**2 cups sifted flour**
2 teaspoons baking powder
1 teaspoon salt
Cut in....**3/4 cup shortening**
Add.....**1/2 cup milk** all at once
Stir until moistened.
Roll 1/4 inch thick; cut in 5-inch squares.
Arrange apple on each square.
Sprinkle with
sugar, cinnamon, and **nutmeg**
Dot with **butter**
Fold corners to center; seal edges.
Place in greased pan; add syrup.
Bake in moderate oven (350°) 45 minutes.

Pineapple Glazed Ham Loaf

Serves 6

Combine ingredients in order given:
- **1 pound ground veal**
- **1 pound ground smoked ham**
- **1 cup dry bread crumbs**
- **½ teaspoon salt**
- **¼ teaspoon pepper**
- **3 tablespoons chopped onion**
- **¼ cup finely chopped green pepper**
- **2 eggs,** well beaten
- **¼ cup catsup**
- **¼ cup water**
- **1 can (10½ or 11 ounce) condensed cream of mushroom soup**

Mix thoroly.
Pack in greased, 8- by 12-inch baking dish.
Bake in moderate oven (350°) 1 hour.
Arrange 6 clove-studded pineapple slices on top of loaf during last 15 minutes.
Spoon mixture of **¼ cup brown sugar** and **¼ cup melted butter** over pineapple
Continue baking for 15 minutes.

Mexican Stuffed Peppers

Serves 6

Parboil . . **6 green peppers** 5 minutes
Drain; stand upright in greased baking dish.
Mix . . . . . **1 No. 2 can whole-kernel corn,** drained
- **¼ cup dry bread crumbs**
- **¼ cup liquid from corn**
- **2 tablespoons melted butter**
- **2 tablespoons chopped green pepper**
- **2 tablespoons chopped pimiento**
- **2 tablespoons chopped celery**
- **2 tablespoons chopped onion**
- **1 teaspoon salt**
- **1 teaspoon chili powder**

Stuff peppers with corn mixture.
Add small amount water to dish.
Cover and bake in moderate oven (350°) 1 hour.

Buttered Parsley Loaf

Serves 6

Trim top and side crusts from
- **1 loaf white sandwich bread**

Cut in two lengthwise down to, but not thru, the bottom crust.
Cut crosswise into as many sections of even size as you wish.
Brush all over with
- **melted butter**
- **chopped parsley**

Place in loaf pan that fits loaf.
Bake in moderate oven (350°) until edges are delicately brown.

Rich Pecan Pie

Makes one 9-inch pie

Beat slightly
- **3 eggs**

Add remaining ingredients in order given:
- **1 cup sugar**
- **1 tablespoon flour**
- **¼ teaspoon salt**
- **1 cup light corn syrup**
- **1 tablespoon melted butter**
- **1 teaspoon vanilla extract**
- **1 cup pecan halves**

Pour into pastry lined, 9-inch piepan.
Bake at 350° (moderate) 1 hour. END

GET THAT CREAM OF WHEAT FEELING!

"Cream of Wheat" and Chef are Registered Trade Marks and Reg. U. S. Pat. Off.

YOU ARE IN DEMAND IF YOU CAN DRAW!

Make Money WITH YOUR BRUSH and PEN

If you like to DRAW, SKETCH or PAINT, write for TALENT TEST. No Fee!

ART INSTRUCTION, INC.
SF-19 MINNEAPOLIS 15, MINNESOTA

Please send me your FREE Talent Test:

NAME _____ AGE _____
ADDRESS _____ CITY _____
COUNTY _____ STATE _____

© King Features Syndicate. All Rights Reserved

SINCE THEY WERE BABIES—
THE QUINTUPLETS
always used this for coughs of
CHEST COLDS

The Quintuplets have always relied on Musterole to relieve coughs, sore throat and aching muscles of colds. No other rub at any price gives faster relief! Musterole also helps break up congestion.

In 3 strengths: Child's Mild Musterole, Regular and Extra Strong for grown-ups.

MUSTEROLE ®

EARN EXTRA CASH NOW!
Sell EVERYDAY CARDS

Big values sell on sight all year. You make up to 50c cash on easy $1 sales. Lovely assortments retail at 60c to $1: Gift Wrappings, Personal "Charmettes," Napkins, Stationery. Samples on approval

15 STUNNING All-Events FOLDERS for $1.00

Friendship Studios, Inc.
915 Adams St., ELMIRA, N.Y

SAMPLES on approval

FREE TO ALL WHO NEED MONEY

I'll help you get extra cash to fill your pocketbook—to live on. Supply my food and household products to regular customers. No previous experience or capital needed. I'll send FREE an assortment of fine, full-size products to test and show. Start near your home. Full or spare time. Gift premiums, big monthly premiums. Rush your name and home address today for free outfit. Hurry!

BLAIR, Dept. 172-EA, Lynchburg, Va.

OLDS' OAK-LEAF LETTUCE

The best summer lettuce. Closer center, loose outside leaves. Excellent quality all summer long. Trial packet..... 10¢

Send for FREE Seed Book

L. L. OLDS SEED CO.
DEPT. 60 MADISON 1, WIS.

The playhouse

HELLO, Playfellows!

Happy New Year means new adventures for everyone. So we've decided to have an exciting new Playhouse this year.

Lots of fun is in store for all you boys and girls in the Playhouse every month. There'll be new things to make and games to play.

But now the curtain is going up on the first of the new Playhouse, so on with the show!

Ruth Elaine

Tracks in the snow are easier to find than are the wild animals themselves. If you saw the tracks shown down the center, could you tell to what animal they belonged?

Snow-time is sculpture-time. Snow men are fun, but why not make something different? Find a picture in a book or magazine, or use your own imagination. It may be a figure of a person, an animal, or some other object. Then bring it to "life" in snow—and do them in bright colors.

Select a level spot in your yard so that your art work can be seen. Then gather your supplies: wooden paddles, a bucket of water, some packages of dye, pieces of tin, sharp sticks, and pocketknives.

First, pack the snow into a solid, square foundation. Then shape the animal or object on the foundation with your tools. Buttons, colored glass, and straw are some of the articles you can use for hair, eyes, noses, and mouths.

Color is the final touch. Mix a package of dye in the water until it dissolves. Then paint the color on your snow sculpture.

Or you can do your coloring as you do the sculpturing. Mix snow in the colored water, and form the object from the colored snow.

Number magic: Here's a game that will make your friends think you are a wizard. Ask someone to think of a number, but not to tell you what it is. Tell him to double it, add 10, and divide by 2. Then have him subtract his original number. He will be surprised when you tell him the answer is 5. The answer is always 5, no matter what number is chosen first. Try it.

Take a number—10 (for example):
Double it **20**
Add 10 ..... **30**
Divide by 2 ..... **15**
Subtract first number
The answer? ..... **5!**

Are you a sharp-eyed detective? Scan these words carefully. See if you can find any misspelled ones.

1. FRUTE	6. SIGH
2. BANNANA	7. PAYED
3. ERROR	8. ACCROSS
4. SHOVLE	9. LITENING
5. LAFF	10. RECEIVE

If you were alert, you found these answers:

1. FRUIT	6. CORRECT
2. BANANA	7. PAID
3. CORRECT	8. ACROSS
4. SHOVEL	9. LIGHTNING
5. LAUGH	10. CORRECT

Your mailman will hand you a letter sometime soon if you sit down right now and write to someone.

If you have a grandmother and grandfather who live far away, they will welcome a letter from you. Your favorite aunt and uncle will be glad to hear from you, too. Perhaps you have some cousins you would like to know better. And don't forget your friends in the city. They always want to know about the events on your farm. Remember, they never get to play with a new calf or feed a wooly baby lamb.

You have plenty of things to write about. If you have some pets, write about them. Tell about the games you play. Maybe you play house or cowboys and Indians at a secret place in your grove of trees. If there's a tiny brook on your farm, you may have collected some colored stones.

When you write to someone, you are sure to be rewarded with answers. And isn't it fun to receive letters addressed just to you?

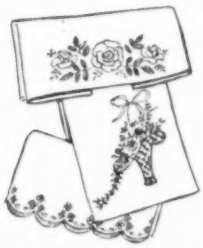
The winners: *One dollar is on its way to the following Playfellows for the neatest, correct answers to the September "Tangleverbs": Mary Kay Carpenter, Elkhart, Indiana; Jean Higgs, Woodbine, Maryland; Iris Spain, Fay, Oklahoma.*

Footprint answers:

1. Fox
2. Raccoon
3. Skunk
4. Muskrat
5. Red squirrel
6. Woodchuck
7. Cottontail
8. Opossum

Needlework

SNE-723. Peacocks make pretty embroidery motifs on towels and pillowcases. This hot-iron transfer pattern contains 12 motifs with complete instructions for embroidering.



SN-92. Roses, flower baskets, and delicate sprays are for pillowcases or guest towels. The hot-iron transfer pattern contains six motifs and comes with complete instructions.

SN-1202. Dainty, 5-inch medallions can be crocheted and joined to make luncheon mats, a tablecloth, or a scarf. This pattern contains complete instructions for crocheting.

SN-868. Adorable kitten slippers are inexpensive to crochet for the four-year-old. Additional stitches make them larger. There are complete instructions with this pattern.

Designs are 15 cents each. Order by number from Successful Farming, 1001 Meredith Building, Des Moines 3, Iowa.

Do germs lead a "hand-to-mouth" existence in your kitchen?

1. THE KITCHEN "JACK-OF-ALL-TRADES" IS THE DISHCLOTH. YOU USE IT FOR WASHING DISHES... WIPING THE DRAINBOARD, SINK, STOVE, REFRIGERATOR.

2. YOUR DISHCLOTH CAN EASILY TRANSFER HARMFUL GERMS FROM A DIRTY SURFACE TO A CLEAN ONE... PERHAPS TO DISHES. WHY TAKE CHANCES...

3. IT'S EASY TO MAKE YOUR DISHCLOTHS SANITARY WITH A REGULAR CLOROX BATH. CLOROX BRIGHTENS, REMOVES STAINS, DEODORIZES AND DISINFECTS. MILLIONS OF HOUSEWIVES USE CLOROX DAILY IN ROUTINE CLEANING OF KITCHEN AND BATHROOM. HELP PROTECT YOUR FAMILY'S HEALTH WITH CLOROX!

Directions on Label

CLOROX... FIRST WITH AMERICA'S HOUSEWIVES BECAUSE IT OFFERS BOTH:

GENTLER Bleaching Action... Longer Life for Linens!
There's no gentler bleach than Clorox in laundering. For Clorox is free from caustic and other harsh substances... made by an exclusive formula protected by U. S. patent!

GREATER Disinfecting Efficiency ...Added Health Protection!
Because Clorox is caustic-free, it works faster in killing germs... does a better job of disinfecting. Give your family the extra health protection of a Clorox-clean home!

CLOROX BLEACHES • REMOVES STAINS • DEODORIZES • DISINFECTS
There's only one CLOROX... it's always uniform... always dependable!

Wipe messy fingerprints off doors and woodwork with **BOON**... the ready-to-use liquid cleaner made by the makers of Clorox. **BOON** wipes dirt and grease from washable surfaces quickly, easily.

GURNEY'S APPRECIATION OFFER

5 GRACEFUL Regal Lilies 10¢

Always Covered with Blooms!

Think of it! Five fine bulbs that will bloom for years—producing innumerable flowers of aristocratic, wasteful beauty. We also will send you our New Seed and Nursery Catalog and a free subscription to Gurney's Planting Guide. Exceptional value. Send 10¢ Today.

Easy to Grow in your Garden

GURNEY Seed & Nursery
617 Page St. Yankton, S. Dak.

Von Ruden Tractor Chainsaw

Fells trees and saws logs. Ruggedly built to use the dependable power of any tractor or Jeep take-off. Quickly attached. Easy to operate. Tractor carries weight of Saw. Fastest chain saw made.

Write today for literature

Von Ruden Mfg. Co. -- Claremont, Minn.

GIANT SHAGGY ASTERS
RED ★ WHITE ★ BLUE ★

3-15c Packets. One each: **Hearts of France Red, Snowball White** and **Blue Gem.** Gorgeous 5 in. Blooms. 2½ in. thick, on stately stems. Send 10c Today for these gorgeous asters and **Big Seed, Plant** and **Nursery Catalog.** **FREE**

R. H. SHUMWAY SEEDSMAN
BOX 666 ROCKFORD, ILLINOIS

NEW MINNESOTA HYBRID VEGETABLES

ENORMOUS YIELDS, DISEASE RESISTANT, HYBRID VIGOR

CUCUMBER Prolific early producer. Vigorous, disease-resistant. Amazing yielder of firm, crisp, med. size fruit. Just right for slicing or for pickling.

TOMATO Giant plants yield up to 1½ bus. each. Amazing vigor. Bears continuously from MID-JULY 'til killing frost! Strong blight resistance

MUSKMELON Surprise mixture of Hybrid varieties. All fine quality. Plant one packet, harvest many sizes, types and flavors of delicious melons.

SEED BOOK **FREE!**

FARMER SEED & NURSERY CO.
12 N. 6th St., Faribault, Minn.

Detail MAKES THE DIFFERENCE

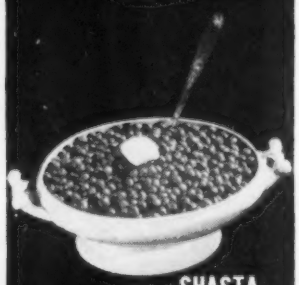
For help on making important details work for you, write today for Drexel booklets. "Traditional"—10c in coin; "Precedent"—25c in coin. *Address: 1972 Huffman Road, Drexel, N. C.*

Drexel FURNITURE COMPANY

WORLD'S LARGEST MANUFACTURER OF QUALITY BEDROOM AND DINING ROOM FURNITURE

To make the most of your garden

SOW Asgrow SEEDS



SHASTA
our new and better pea

ASGROW SEEDS
Sold by local stores

CLIP AND MAIL TODAY

EARLIEST TOMATO GROWN ... My Own Introduction

FREE: Reg. 15c pkt. of 200 Red Bird Tomato seeds, free catalog and year's subscription to "Seed Sense." Send ad, 3c stamp.

"FIELD'S RED BIRD" Ripe in only 63 days from seed. Bright red, smooth as velvet, delicious. See **FREE OFFER** at left. All my seeds tested and really grow. Your money's worth or your money back. Write me.

HENRY FIELD SEED CO. 611 Elm St., Shenandoah, Iowa

Since you're such a

I'm determined to be a wonderful wife, and a pretty one. And I've made some New Year's resolutions

No more steel shavings

SINCE you're such a wonderful guy (I married you, didn't I?), and I do love you, I'm going to make you especially proud of me this year. Because this year I am going to bring glamour into your everyday life!

Now don't get frantic, because I'm not going to try to look like a model in $300 gowns (I can see you picturing bills, bonds, and mortages from the Bonnee Beautee Salone). But I am going to be a lovely homemaker.

It all started when you put that small mirror in the kitchen. (Was that a hint?) At first, I was too sleepy to notice how I looked in the morning. One day I got up courage and took a quick glance. Why didn't you tell me that I looked like the bride of Frankenstein?

That is going to be change Number 1. Those curlers make my head look like I've stuck it in a bucket of steel shavings. A pretty scarf will cover the essential curlers at night. But the curlers are coming out of my hair upon arising! Followed, of course, by a neat, becoming arrangement of the locks.

Some people would be kind and say that my face in the morning looks as white as the driven snow. But I'm brutally frank about the whole thing. I say it looks ashen in a dead sort of way.

After I wash it with soap and water comes change Number 2. It consists of make-up—so early in the morning, too. And it's going on carefully. There'll be color in my cheeks and lips, and it will be in the right places.

Of course, all this includes a brisk brushing to get my pearly whites pearly white. But this year I'm going to do it *before* breakfast, even if I have to get up two minutes earlier.

Altho the relationship between me and an angel is only slight, I read someplace about cleanliness being related to godliness. Therefore, O spouse, the daily bath is for me. There'll be no putting off until tomorrow. And why should I be

three-fourths safe, when an effective deodorant once a day will keep me charming?

I've come to the conclusion that glamour girls don't have the exclusive rights to colognes and perfumes. So I've decided to use my Christmas bottle of "Soothing Witchcraft" for something besides a dressing-table ornament. I'm rather delighted that the children used the last of my other cologne. They put it on the pups, you know, because they said the pups smelled like dogs.

HOW glamorous can you get? Well, there's more. The time has come when my faded, splitting house dresses and I must part. And I'm not about to look in the shops for the latest thing in blue jeans. Come what may, I'm not even going to wear my old dress-up dresses for housework. I want to wear clean, comfortable, crisp cottons that are colorful, yet conservative in their design. Because this project starts in the winter, I'll need something else for warmth. How about a coat sweater? (See December, *Successful Farming*, page 46.)

To show you just how thrifty I am, I'll take the old house dresses, aprons, and lattice-run nylons and make a throw rug for your den. Then may I have some hosiery with all the threads where they belong?

The shoe-repair man in town is in for

wonderful guy

an avalanche of business. I'm tired of having to walk on the sides of my shoes. My feet are in for a treat in comfortable, repaired, shined shoes with new laces in them! I'm even going to make the supreme sacrifice and throw away those bunny bedroom slippers. Please don't suggest saving the tops for spats.

I know by the way you cringe that my chipped nail polish doesn't appeal to you. My decision: It's got to be all on or all off. So it's all on when I'm being social and all off when I'm choring. But even when it's all off, my nails are going to be clean and well-shaped. No more of these Dracula claws.

NOW that we have me dressed for the day—and I'm looking lovely—I'll bring on the rest of the project. It's on a weekly basis, too!

No longer will I have that cave-woman look about the legs. Once a week, I'm going to arm myself with *my own* razor and blades (and a styptic pencil). I'll shave at least once a week so there will be no remarks from you about braiding.

My hair is going to be subject to a good shampooing every week. And to keep it looking like a halo instead of hair, it's going to get 100 thoro brush strokes every day.

This year, my dear, you may cease pointing out the advertisements for stout-sized dresses. I am going to reduce. Honestly. Are you still there? I had to save the best until last.

Just in case—it probably *never* will happen—I stray away from these resolutions, there's going to be that mirror. All I'll have to do is look into it and my vanity will send me running (not walking) to the nearest powder puff. END

Red is smart here...

but never here!

SUIT BY PAULINE TRIGÈRE

CHAP-PROOF* your hands with TRUSHAY

FASHION hit! Flame red emblem—silk embroidered—ablaze against your Portrait Blue beret! Fashion failure, red hands. And they're so needless now!

Even if you do dishes or brave wintry winds, you can keep your hands smooth and lovely with *different* Trushay.

For Trushay has a unique "beforehand" extra that guards against chapping. Yes, you can use Trushay *two* wonderful ways!

To soften and smooth. Just a few drops make your hands feel like satin! Use fragrant, creamy-rich Trushay *any time!*

To chap-proof. Smooth on Trushay *before* doing dishes, light laundry, or *before* going outdoors. As long as Trushay is on your hands, they're protected against *water* chap and *weather* chap!

For evening-soft hands all day long . . . begin today to use Trushay!

TRUSHAY

PRODUCT OF BRISTOL-MYERS

The lotion with the "beforehand" extra!

* Applied *before* exposure to hot, soapy water—or wind and weather—Trushay protects hands against the red, rough, dried-out condition known as chapping. When soap-and-water tasks are prolonged—or weather is severe—renew application at more frequent intervals.

IF PETER PAIN CLUBS YOU WITH
RHEUMATIC PAIN

● HURRY—rub in Ben-Gay for fast, soothing, gently warming relief! Insist on *genuine* Ben-Gay, the original Baume Analgesique. Ben-Gay contains up to 2½ times more methyl salicylate and menthol—two pain-relieving agents known to every doctor—than five other widely offered rub-ins. Ben-Gay acts fast where you hurt.

Also for Pain due to COLDS, MUSCLE ACHE, and STRAINS.
Ask for Mild Ben-Gay for Children.

QUICK... RUB IN **Ben-Gay**

Grow XMAS TREES
We grow 20 million trees a year. Write for special Xmas tree bulletin, prices.
MUSSER FORESTS, Inc., Indiana, Penna.

Easy as A-B-C

Be Your Own MUSIC Teacher
LEARN AT HOME THIS QUICK MONEY-SAVING WAY
Simple as A-B-C. Your lessons consist of real selections, instead of tiresome exercises. You read real notes—no "numbers" or trick music. Some of our 850,000 students are hand LEADERS. Everything is in print and pictures. First you are told what to do. Then a picture shows you how. Then you play it yourself and hear how it sounds. Soon you are playing popular music. Mail coupon for our illustrated Free Book and Print and Picture Sample. Mention your favorite instrument. **U. S. School of Music, 981 Brunswick Bldg., New York 10, N. Y.**

FREE BOOKLET

U. S. School of Music, 981 Brunswick Bldg., N. Y. 10, N. Y.
Please send me Free Booklet and Print and Picture Sample. I would like to play: Name Instrument
Instrument Have you Instrument
Name
Address Please Print

Send for **FREE** Booklet
on Agriculture in
SAN DIEGO
COUNTY
Get the facts on soil, water, crops, dairying, livestock, poultry, turkeys, on investment and income. ***Vacation here this winter*** and study America's 23rd richest agricultural County, where you want to make your home! Enjoy year 'round health and happiness in semi-tropic to frost-line areas.
Write **San Diego-California Club**, Room 55
499 West Broadway, San Diego 1, California

Get Well QUICKER
From Your Cough Due to a Cold
FOLEY'S Honey & Tar Cough Compound

NYLON White Parachute Nylon for blouses, slips. Five parachute panels (10 square yards) $4.95.
CLARK'S, 1211 B St., San Mateo, Calif.

Answers to the Farm Quizbox

[*From page 76*]

1 (c) is correct. The new tire contains rock salt. As the tire wears down, it releases salt which forms surface pores. Pores help tire hold road.

2 (a) is correct. Lac. must plant more male and female trees. Female persimmon trees bear only when near males.

3 (c) is correct. First motion picture shown to a public audience in year 1895.

4 (b) is correct. Other scientists (geologists) do not agree with the engineer's theory that ice piling up at poles will eventually cause earth to tip over.

5 (a) is correct. Eastern farmers do have new egg-washing method as described, reports Du Pont agricultural newsletter.

6 (a) is correct. According to the International News Service, the thorn from Christ's crown was stolen in Rome.

7 (b) is correct. R. W. Howard states that farm women spend most of the cash exchanged in farm areas. (This doesn't include payments by check or time payments for large items such as machinery.)

8 (c) is correct. Fifteen times as many women as men have foot trouble, states the New York Podiatry Society.

9 (b) is correct. This hedge fence, recommended by Illinois Division of Forestry, reaches height of 8′.

10 (c) is correct. Dr. Van Allen reports that one V-2 rocketed up 114 miles.

11 (a) is correct. In 1935, only 15 out of every 100 Iowa farms had electricity.

12 (c) is correct. Calvin Coolidge was first president to speak on the radio.

13 (b) is correct. The Wisconsin Experiment Station study of 400 farm children in 39 farm schools revealed that large percentages of the children ate too few vegetables and drank too little milk. Blood samples showed borderline anemia.

14 (c) is correct. President was Benjamin Harrison.

15 (b) is correct. According to the Metropolitan Life Insurance Company, the statements are true.

16 (c) is correct. U.S.D.A. states that the simplest will must be written and, in most states, signed by witnesses.

17 (b) is correct. According to recent University of Maryland studies, eggs can be kept at low temperature for several hours and still retain hatchability.

18 (b) is correct. Only 43 survivors of the Boys in Blue were still living in September, reports the *New York Times*.

19 (b) is correct. For safety, septic tank should be about 100′ away from a well.

20 (a) is correct. Records show that of every three ears of corn fed to an infested hog, the worms get one. END

Developing good Scouts and good citizens is Frank H. Bisping's big interest

"I make the time to build boys, too!"

Says Contractor "Spike" Bisping of Clarksburg, West Virginia

Busy as his own job is, Spike doesn't let it stop him from helping Clarksburg boys!

WITH three children of their own to bring up, Spike and Myrtle Bisping wanted to help make Clarksburg a better place for all children to grow up in. But what could they go into that would bring out the best in youngsters, help build the best citizens?

Was Scout work the answer?

Family fun at camp! The Bispings, left to right: Babe, Mrs. Bisping, Spike, Nichy, Jack, and Bobo, their dog.

Spike devoted his vacation last summer to taking 11 boys on an exciting canoe trip down the Cheat River.

Spike had a new construction business on his shoulders. How would he manage to make the time to "build boys," too . . . ?

When his son Jack was 9, Spike decided to budget his busy days so that he could help with the neighborhood Cub pack. Even today, when he's still busier, he makes the time to be chairman of the troop committee of the district council.

Myrtle Bisping is a Girl Scout leader and camp counsellor. Daughters Nichy, 14, and Babe, 10, are active scouts, too.

Spike's family loves outdoor life as much as he does! Camping's their main source of inexpensive fun together. For in these days of high costs, careful money management is *doubly* important to the Bispings. Just as they must budget their *time*—the Bispings, like all of us, must plan their *dollars* carefully too. From the spendable income of $6400 a year, $1390 goes for their new house, $2100 for food. Spike's $50,000 of insurance is planned as protection for family and business, savings for college.

Works on Camp Project

So other young folk can enjoy the outdoors too, Spike and fellow Scout officials plan a camp on waterfront land outside town.

How do the Bispings find the time? As Myrtle says, "Some things can wait—but children can't. Not if we're to keep this the kind of country we all want!"

Jack, now 15, hopes to be an expert gunsmith. His parents look forward to the fun of doing still more for their town.

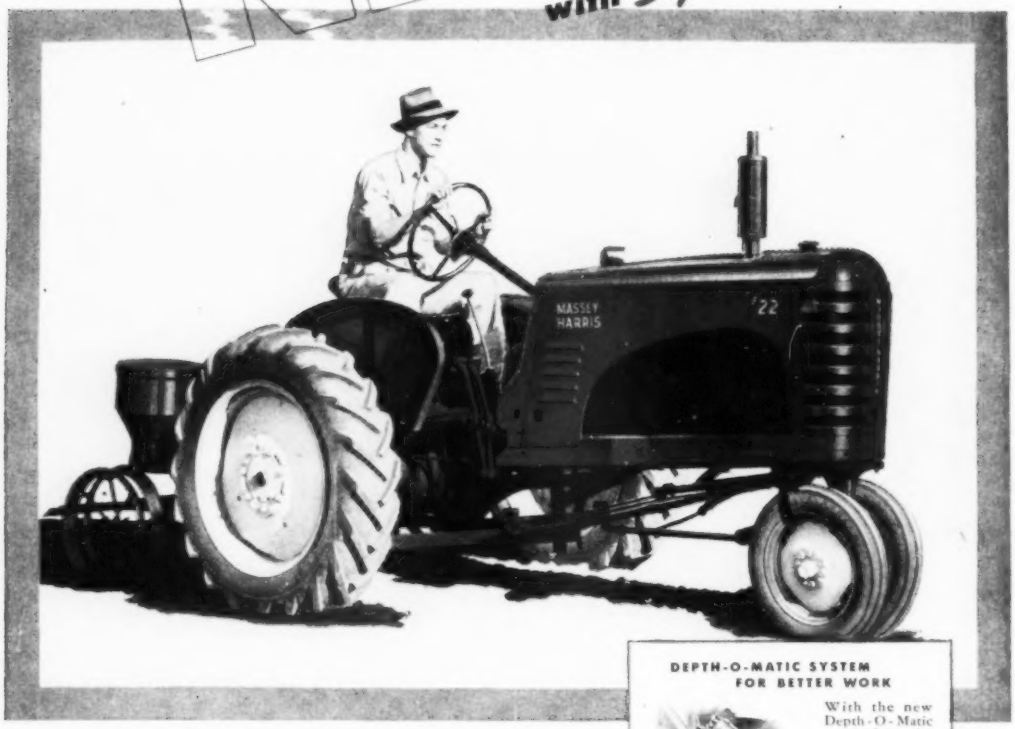
THE LIFE INSURANCE COMPANIES AND THEIR AGENTS

The Bispings, like other American families, prove to all of us that the only way we really solve our problems is by our own efforts!

These stories of real families also show how much *more* success, how much more happiness is possible when you have *peace of mind* . . . the sort of peace of mind that comes from wise management of money now, and from knowing that *future* security has been adequately provided for. The Life Insurance Companies and their Agents bring you these American family closeups because *what this country amounts to depends upon what happens to its homes!*

INSTITUTE OF LIFE INSURANCE
60 East 42nd St., New York 17, N. Y.

NEW MASSEY-HARRIS MODEL 22 TWO-PLOW POWER with *Depth-o-matic* System



MORE POWER, MORE ECONOMY

From any angle you look at it, you get MORE in the new Massey-Harris Model "22," successor to the famous Model "20." *More* power — 140 cubic-inch engine to get more work done — to handle all your two-plow work. *More* economy to show more profits. *More* conveniences for easier, more efficient operation.

But even bigger news, is the new Depth-O-Matic System for raising and lowering implements and holding them to their job.

A touch of the lever and up comes cultivator, bedder, or planter—hydraulically. Another touch and down they go back to work, under power. No jerking, jarring, or banging — but smooth as cream. This means better work . . . bigger yields . . . more time saved . . . less fatigue for you at the end of the day.

Equally outstanding are the tools and implements for the Model "22." Designed specially for the Model "22," they operate as a unit. You can put them on or take them off in a matter of seconds . . . by the stop-watch. Easy to adjust . . . simple . . . compact . . . they're modern as the "22" itself.

Get the whole story, first hand, from your Massey-Harris dealer — a tractor that meets the challenge of high labor costs and intensive production on the family-size farm. Ask for a folder which describes the Model "22" and its companion tools in detail. Or write for a copy to Massey-Harris Co., Racine, Wis., Dept. 110.

DEPTH-O-MATIC SYSTEM FOR BETTER WORK

With the new Depth-O-Matic control on the Model "22" you have accurate, dependable, muscle-saving hydraulic control for every job, in any soil.

TRIGGER LATCH FOR 1-MINUTE HOOK-UPS

Trigger Latch Hook-up is the slickest thing you ever saw for hooking up or taking off implements. Takes less than a minute. Simple. Easy. Gives you more time for productive work.

Make it a Massey-Harris

MASSEY HARRIS M·H

From this plan
more egg money

Grade buying has raised price about 5 cents a dozen for these producers

By C. W. Stall

IN RECENT years, Indiana farmers have realized thousands of extra dollars from cooperative-marketing programs thru which they are paid on the basis of the quality of their product.

More money is successfully being put into the pockets of Hoosier poultrymen thru a 19-months-old quality egg-marketing program, spearheaded mainly by the Indiana Farm Bureau Cooperative Association.

For example, the John J. Heinzman family, Hamilton County, Indiana, has been producing eggs for a cooperative hatchery for about 11 years. And now they're selling eggs thru the quality marketing program.

They report that good management and good chickens pay off. According to them, the current receipts (straight-run) price in their area has been raised about 5 cents a dozen by the cooperative program. They believe that good-quality eggs can be practically insured if good chicks are purchased and eggs are handled properly. This year they have 1,100 Barred Plymouth Rocks.

MRS. FRED MOBLEY, Monroe County, also finds that this plan boosts her flock income. Not only does she profit by producing quality eggs and marketing them on a graded basis, but also from selling hatching eggs to the county cooperative hatchery.

Last year she raised 400 chicks of the Nedlar strain of New Hampshire Reds, which are high egg producers and make satisfactory broilers. Death losses have been almost negligible, and her flock is believed to have the highest hatchability record of any in the county, according to the hatchery manager, Ralph Knapp.

Wire baskets for egg cooling soon pay for themselves, finds Mrs. John Heinzman

Some will wonder if the extra work (such as gathering twice daily and cooling properly) and expense involved in improving egg quality is justified by the premiums paid. It definitely is, according to Jackson County egg producers who averaged 5.4 cents per dozen over local buying points when they sold their eggs on a quality basis thru their own cooperative. In addition to this bonus for quality, the farmers of Jackson County who sold eggs to their cooperative hatchery last year received an average-hatchability premium of 16 cents a dozen.

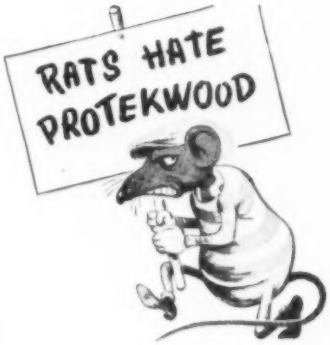
It takes about 140 eggs per hen each year to break even on a poultry flock. Records kept on 588 flocks last year showed that the average Farm Bureau hen produced over 4 dozen more eggs than the average Indiana hen. Furthermore, Thad Macy, state cooperative poultry specialist, points out that a hen with inherent high-production ability will produce about 30 more eggs for each 4 pounds of feed. It is this increased production, as well as increased quality, that results in the real profit.

SOME cooperative egg-grading units have trucks which visit farms and pick up eggs. However, the Heinzman eggs are taken to their local Farm Bureau Cooperative store at Noblesville. Then they are delivered to the Indianapolis egg-grading unit—some 20 miles away—at a cost of 1½ cents a dozen for bookkeeping and transportation.

Prices being paid farmers who sold their eggs cooperatively at Indianapolis on a graded basis in late July were: large

Turn to page 90

Flockowners get more money when eggs are bought on a quality and grade basis



They can't get through this new, low-cost moisture-resistant building board!

What is Protekwood?* It's a new, patented board, 1/7 in. thick, made of genuine hardwood, faced with durable paper, heavily saturated with asphalt and resin.

This gives you a strong, low-cost, moisture-resistant material that rats simply can't chew through. Use it for dozens of different jobs . . . wherever you want safe shelter for animals or produce.

In dozens of tests, rats have starved to death in their attempt to chew through Protekwood to reach food on the other side.

Protekwood can be worked quickly and easily with ordinary hand-tools. Available at your local lumber dealer in sheets 4 feet by 8 feet at *about 9¢ per square foot.*

Protekwood makes good temporary silos . . . will not tear or break . . . keeps rats out.

•

A fine lining for egg storage rooms . . . to help maintain high humidity.

•

Use it to build or partition laying nests.

•

Protekwood gives you a tight windseal and rat barrier for hog brooder houses.

SEND FOR FREE SAMPLE AND LITERATURE ON PROTEKWOOD . . . you'll find it one of the handiest materials you ever used!

*T. M. Reg.

THE UNITED STATES PLYWOOD CORPORATION

55 West 44th Street, New York 18, N. Y.

Gentlemen:

Please send me a sample of Protekwood, and full details of how it can help me on the farm.

Name_____

Address_____

City or RFD #_____ State_____

You'll Get THROUGH Quicker!

ATKINS "Silver Steel" Crosscuts REALLY Cut Easier!

Through the log and *through* with the winter's cutting — you'll get both done a whole of a lot quicker with an Atkins Crosscut. Razor-keen, with big gullets to hold the big bites it takes so easily, an Atkins breezes through tough or gummy wood. Never sticks or binds because it's *segment ground*. And, thanks to the amazing edge-holding qualities of Atkins "Silver Steel," you'll stack up many an extra cutting before you ever lay a file against those "wood-hungry" teeth. Complete range of tooth patterns. Do it the easy way — the Atkins way.

Buy from your local hardware retailer.

ATKINS "Silver Steel" SAWS

E. C. ATKINS AND COMPANY
Home Office and Factory:
402 S. Illinois Street, Indianapolis 9, Indiana
Branch Factory: Portland, Oregon
Branch Offices: Atlanta • Chicago • New Orleans • New York • San Francisco
MAKERS OF WORK SAVING SAWS FOR EVERY FARM SAWING JOB

A TIP FOR SUCCESSFUL FARMING

K&M "Century" APAC ASBESTOS-CEMENT BOARD

Good crops and high yields deserve good storage facilities to protect them until they go to market. That's important.

The above illustration is the grain elevator of the Wrigley Grain and Lumber Co., Lafayette, Illinois, sided with ¼" K&M "Century" Apac asbestos-cement board. The builder chose Apac because he knew Apac couldn't burn, rot or rust. He also knew that rats couldn't gnaw through Apac siding, and that weather would never harm it.

For these reasons "Century" Apac is just the thing for ceilings, partitions, sheathing for dairy barns, milk houses, grain bins, garages, work shops, poultry houses. Send for FREE plan of poultry laying house.

"Century" Apac is furnished 4'x8' in thicknesses of 3/16", ¼" and 5/8". Easy to handle and install, low in cost.

Original manufacturers of Asbestos-Cement Roofing Shingles in this Country

KEASBEY & MATTISON COMPANY • AMBLER • PENNSYLVANIA

K&M Last in asbestos

From this plan more egg money

[*From page 89*]

Grade A, 50 cents a dozen; medium Grade A, 45 cents; Grade B, 40 cents; Grade C, 31 cents, as compared to the current-receipts price of 35 cents a dozen. A survey made on the Indianapolis, Evansville, and Lafayette markets in May showed that "straight-run" buyers were paying on an average of 2.4 cents a dozen closer to the Chicago market price than they were a year ago.

On June 1, 1947, when the Indiana Farm Bureau Cooperative Association started its quality egg-marketing service, only two egg-buying concerns bought eggs from farmers on a U. S. Consumer Grade basis. Neither of these companies bought their eggs over a large portion of the state.

TODAY, approximately 31 concerns in the state have grading contracts with the United States Department of Agriculture. Of these, 24 buy from farmers on a quality basis, and of these 24 concerns, 7 are farm cooperatives.

The program began with an egg-marketing unit at Indianapolis, and other units were added at Osgood, Evansville, New Paris, Warsaw, Lafayette, and Hayden in the year that followed. This system of markets makes it possible for any farmer in the state to sell his eggs on a market which pays him according to the quality of his product. Thus, high quality means more income.

Following the recent World War, the number of farm flocks supplying hatching eggs to cooperative hatcheries became so numerous and production of eggs so high that the hatcheries which operated on a seasonal basis could no longer use all of the eggs that were delivered to their local plants. Farmers immediately concluded that they needed an egg-marketing program co-ordinated with their hatchery program.

Two big steps in the Hoosier poultry-improvement program were the passage of an Indiana egg law in 1937 and the development of cooperative hatcheries. The egg law made it a public offense to offer for sale at retail level any egg unfit for consumption.

This law alone did much to increase the use of eggs in Indiana, because, before that time, most good eggs produced in the state were separated and sold on the Eastern market. This meant that the

Eggs go to cooperative egg-grading unit in a hurry when truck pickup plan is used

poor eggs hurt the home-market price.

This revolutionary attempt in the field of egg-marketing owes much of its success to the preparatory educational and research work done among flockowners by Purdue University poultry specialists, farm organizations, and Indiana cooperative hatcherymen.

In the early days, Indianapolis chain stores pioneered in offering their customers graded eggs, and proved that Indiana consumers were willing to pay more for good quality. The next step in making the poultry flock a more important part of the farming operation is the building of poultry-processing plants over the state of Indiana to dress and sell poultry cooperatively.

The first such cooperative poultry dressing plant was opened at Hayden, in southern Indiana, and another one opened last fall at New Paris, in northern Indiana. Each of these plants will process 1,500 chickens per hour, and the dressed birds will be sold on a quality basis.

Such activities should serve well the interests of general farmers in Indiana, who usually raise dual-purpose chickens. And the effect on the poultry industry as a whole will be good. **END**

Hogs—a bigger market for forage

[*From page 31*]

load of hay and manure was hauled out from around the bunk. Following this period, there was very little, if any, waste of hay.

Hay half of ration. By actual weight, the lot of 263 pigs on January 5 were consuming a total of 600 pounds of loose brome-alfalfa hay, and 660 pounds of corn per day. By dry weight, the ration was nearly 50 percent brome-alfalfa hay. Loose hay is preferred to chopped hay because of the need for additional chewing, which Frakes believes is a desirable aid to digestion.

On January 5, Frakes weighed and marked 10 representative pigs. They averaged 128 pounds.

One month later, the same 10 pigs again were weighed, averaging 152 pounds. This was a net gain of 24 pounds, giving a daily average of eight-tenths of a pound per head.

The brome-alfalfa hay was fed in a regular calf-feeding hay bunk, with a 6″ opening at the bottom to accommodate the pigs. The feed rack was 4′ wide, 2½′ high, and 14′ long.

On February 5, it was observed that the pigs were not able to get all of the brome-alfalfa hay from the bunk that they desired, because the opening was not sufficiently large. After the bottom opening was increased to 10″, the total consumption per day of loose hay increased 35 percent.

It was necessary to ration the corn to make the pigs eat large quantities of hay. However, there was only one period of about a week when the appearance of these hogs looked a bit dubious, as indicated by the roughness of their hair. When the grain-to-hay ratio was increased a little, the roughness of hair soon disappeared.

The original plan of the hog-feeding program was to feed a large ratio of

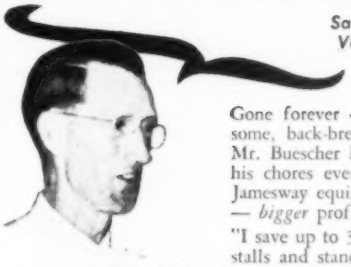
[*Turn to page 92*]

Jamesway Equipment

REG. U.S. PAT. OFF.

SAVES 1½ HOURS

EVERY DAY-INCREASES MILK 10%



Says Ignatz Buescher
Venedy, Ill., farmer

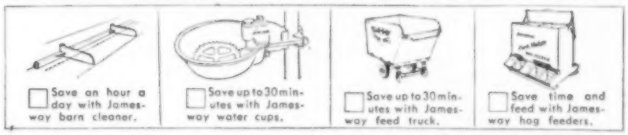
Gone forever — 1½ hours of needless, tiresome, back-breaking drudgery! In its place, Mr. Buescher has gained *extra* time to do all his chores even better. That extra time plus Jamesway equipment means higher production — *bigger* profits!

"I save up to 30 minutes a day with Jamesway stalls and stanchions," Mr. Buescher says. "I save an hour with my Jamesway water cups. Add to that the time I save with Jamesway ventilation and other equipment and you can see how I have cut my chores 1½ hours. My herd is easier to handle and my milk check has increased 10%."

Now's the time for you, too, to modernize with Jamesway! Drudgery is *expensive!* Don't let it rob you of precious time and money. Jamesway equipment costs surprisingly little. Lasts for years and years. See your dealer. For literature, write James Mfg. Co., Ft. Atkinson, Wis., Dept. SF-149.

Ignatz Buescher, right, tells Jim Batton of Mascoutah Equipment Co., how Jamesway water cups have increased milk production.

✓ Check this Jamesway Chart to See How Much Time You Can Save Every Day



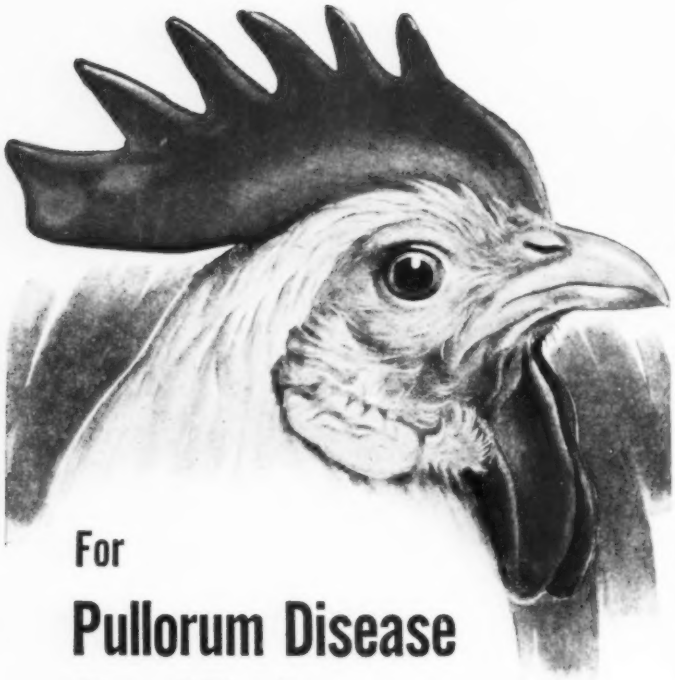
World's Largest Manufacturer of Barn and Poultry Equipment

JAMES MFG. CO.

Fort Atkinson, Wis. Elmira, N. Y. Oakland, Calif.

YOUR Jamesway DEALER

Look for the Store with the Jamesway Sign.



For

Pullorum Disease
Coccidiosis
Fowl Cholera
Coryza

SULMET*

SULFAMETHAZINE *Lederle*

One drug for highly effective treatment of four major poultry diseases.

SULMET Sulfamethazine SOLUTION for use in the drinking water . . . SULMET Sulfamethazine POWDER for mixing in the mash . . . Figured in terms of cost per bird treated, a surprisingly moderate priced drug.

SULMET gives almost complete protection against losses in outbreaks of cecal coccidiosis, and infected birds become immune to the disease.

SULMET is highly effective for quickly controlling outbreaks of coryza (cold) in chicken flocks.

SULMET reduces death losses in outbreaks of pullorum disease in baby chicks, in outbreaks of acute fowl cholera in chickens, turkeys and ducks, coccidiosis in turkeys and anatipestifer infection in ducks.**

We will gladly send free, upon request, our book "Control of Poultry Diseases."

**Establish bacteriological diagnosis immediately when outbreaks of pullorum disease, acute fowl cholera and anatipestifer disease are suspected. *Reg. U. S. Pat. Off.

Poultry Department

LEDERLE LABORATORIES DIVISION

AMERICAN *Cyanamid* COMPANY

30 ROCKEFELLER PLAZA NEW YORK 20, N. Y.

Hogs—a bigger market for forage

[*From page 91*]

brome-alfalfa hay to corn, and finish the hogs for the July market. However, the supply of hay ran out on June 7, making it necessary to start full feeding of corn.

The 150 head, averaging 246 pounds, were marketed on June 15, and they had received only one week of self-fed corn. In other words, the bulk of the feeding period of this lot of pigs had a very large ratio of brome-alfalfa hay to grain. It was observed that the 220 head ate 400 bushels of corn the first week on full feed after running out of brome-alfalfa hay.

It should be noted that the last lot of hogs, 70 head, ate a total of 1,100 bushels of corn from June 15 until marketed on July 16. This was nearly a fourth of the total of 4,605 bushels of corn consumed by the 349 head raised and marketed (the 52 gilts saved were not marketed). There was a death loss of 17 head.

Up until June 7, at which time Frakes ran out of hay, approximately 82,793 pounds of pork were produced. By this time the hogs had consumed 3,105 bushels of corn, 590 bushels of oats, and 111,550 pounds of brome-alfalfa hay.

The county extension director, Aaron Bowman; the local veterinarian, Dr. B. E. McCulloch, and I periodically observed the feeding project. Both Mr. Bowman and Doctor McCulloch made many helpful suggestions.

What Frakes concluded. Frakes states, "In studying what I believe to be the No. 1 soil-conservation problem in the Cornbelt, namely that of corn and hogs, and in trying to use and evaluate greater quantities of forages in my own hog-production operations the past year, I would like to present the following conclusions and suggestions:

(1) Large quantities of high-quality brome-alfalfa pasture and hay can be substituted for grain *if sufficient time* is allowed for the feeding period. On a dry-weight basis, 26.4 percent of the total feed given the 339 fall pigs to market weight was brome-alfalfa hay. This did not include the fall pasture. Had additional hay been available, the percentage of forage would be considerably higher.

(2) The health and vigor of the pigs receiving large quantities of quality hay to grain appeared very good to excellent, and gains were constant.

(3) With large quantities of high-quality forages to grain, it gives the hog more of a soil conserving and improving relationship to the land.

(4) It was found that sows being carried for first or second litters can use from

Seventy days on pasture for both sows and pigs also were included in the feeding test

80 to 95 percent of the total feed intake from high-quality forage pasture during pregnancy with excellent results. The sows continued to gain while on pasture. My future plans call for grass silage during the winter feeding period.

(5) Even with 26.4 percent of the feed coming from forage, it is not sufficient to set up the necessary sod crops to grain crops to maintain fertility."

The following formal research in hog production as related to land-use is suggested for the Cornbelt Agricultural Experiment Stations:

Various experiments. (a) Determine upper limits of high-quality forage utilization in hog production when *time* is not a factor.

(b) Develop strains and species of grasses and legumes that are more palatable to hogs. Compare various combinations of grasses and legumes for pasture, hay, and grass silage to obtain maximum gains from these forages thru hogs.

(c) Determine at what ages growing and fattening pigs can use quality forage most efficiently.

(d) Select and breed strains of hogs that are efficient foragers.

(e) Determine several practical alternate hog-feeding programs where large ratios of forages to grains are fed or can be fed.

(f) Determine the ratio of hogs to supplemental livestock (dairy, beef cows, and sheep) needed to follow a crop rotation on Classes I, II, III, and IV land that would maintain and conserve fertility when hogs are the major enterprise.

Will repeat farm test. You might well ask, "Does Mr. Frakes plan to continue his forage-hog program?" His answer is definitely "Yes."

However, last year he was forced back to a concentrate-feeding program because of the winterkilling of new seedings and winter damage to his old alfalfa stands. His future plans call for large quantities of high-quality pasture in his hog enterprise during the growing season, as well as hay and grass silage during the winter feeding period.

Mr. Frakes does not believe that corn will lose its place as the major crop used for hog feed in Iowa. However, he does contend that a closer balance between sod crops and grain crops must be brought about. This will create a better land-use program for the hog producer.

By the use of more sod crops, larger yields of grain can be obtained per acre. This type of hog management also can help the hog producer stretch his feed supplies during the lean years. END

SUCCESSFUL FARMING

"All he needs is a haircut."

HE FEEDS PIGS for FAST FINISH-

even before they're farrowed!

C. F. EIBERGER GETS STRONGER LITTERS WITH

"Last winter, we fed our brood sows Quaker Sugared Schumacher, corn and Ful-O-Pep Pig-N-Sow Feed during gestation. They farrowed the strongest litters we've ever had, and the *16 sows weaned 132 pigs*. We are convinced Ful-O-Pep Hog Feeds are the best on the market." C. F. Eiberger & Son, Clarksdale, Mo.

SPEED YOUR HOGS TO MARKET!

Build big, thrifty pigs in sows with

Ful-O-Pep Pig-N-Sow Feed

Big, husky 3 to 3½ lb. pigs at farrowing . . . those are the kind that *get ready for market early.* Those are the kind that many Ful-O-Pep feeders are getting, too . . . for Pig-N-Sow Feed and grain fed to sows build *big pigs that grow fast.*

You see, Ful-O-Pep Feeds alone are *enriched* with Concentrated Spring Range*—Nature's Richest Vitamin Combination—made from fresh, young cereal grasses. This special Vitamin Boost is a proven "*pig-builder*" . . . one of the extras you get from Pig-N-Sow Feed.

What's more, the choice proteins and organic-source minerals in Pig-N-Sow Feed *round out your grain* to make a balanced, economical gestation ration. It pays off in the farrowing pen.

So take a tip from men like C. F. Eiberger. Start feeding your sows Ful-O-Pep Pig-N-Sow Feed and grain NOW! *You're the man to "cash-in"*. Plan to visit your local Ful-O-Pep Dealer today.

SEND for FREE BOOK

On card or letter say, "Please send my FREE copy of the hog book BOOST PORK PROFITS." Mail your request now to The Quaker Oats Company, Dept. A-94, Chicago 4, Ill.

*Reg. U. S. Pat. Off.

FUL-O-PEP PIG-N-SOW FEED · PIG STARTER · 40% HOG CONCENTRATE

FEEDS FOR PORK PROFITS

HERE'S HOW YOU CAN SAVE MONEY TO BUY A GOOD FARM

and you also will have a guaranteed income for life

If you're an ambitious young man, hoping to have a farm or business of your own some day, here's a plan that's hard to beat. It's a program by which you can save enough to buy a farm outright . . . and, on top of that, you'll have a sure income for as long as you live. Here's how it works:

Take a job with the United States Army now. If you have average ability and apply yourself, it is easy for you to earn promotions. Suppose, for example, you're a corporal in 3 years; a sergeant during the early part of your second enlistment; a master sergeant in six years.

* * *

Now, if you save only one-fourth of your cash income while in the Army, in 20 years you'll have:

Savings	**$10,028.00**
Interest on Savings	**$ 3,440.57**
Total Cash	**$13,468.57**

In addition to your total cash, you'll have $107.25 guaranteed monthly income for life as a retired 20-year master sergeant.

You can easily save that much. Most of the things that use up civilian incomes are free to men in the Army. For example: your board and rent are free . . . you get free medical and dental care . . . you get free clothing and equipment. Your retirement plan costs you nothing and your insurance rates are low.

Suppose you are 20 years old now. You can own your farm . . . and have a sure income besides . . . if you retire as a master sergeant when you are only 40. There are mighty few civilians who do as well. Get the details on this opportunity today . . . without obligation . . . at your nearest U. S. Army Recruiting Station.

PEACE IS AMERICA'S MOST IMPORTANT BUSINESS

THE NEW ARMY AND AIR FORCE OFFER

- WIDEST CHOICE OF CAREER JOBS
- BEST OPPORTUNITY FOR ADVANCEMENT
- UNUSUAL RETIREMENT BENEFITS

U.S. ARMY and U.S. AIR FORCE RECRUITING SERVICE

Furnishing, Remodeling, and Building Helps Available for Your Farm Home

In cooperation with *Successful Farming*, the stores listed below maintain a permanent Home Planning Service to give you assistance without cost or obligation. Thru this service, the dependable advice and ideas of *Successful Farming* editors are offered by leading stores in your area.

In addition, farm home plans, service building plans, books, booklets, and other materials are available for your inspection and purchase.

Attractive, lifelike scale models of *Successful Farming*'s Big Three farm homes, and other models to be built in the future, will be displayed in these stores.

Illinois

Bloomington	Livingston's
Danville	Block & Kuhl Co.
Decatur	Block & Kuhl Co.
Galesburg	Block & Kuhl Co.
Peoria	Block & Kuhl Co.
Quincy	Block & Kuhl Co.
Rockford	Hess Brothers

Indiana

Indianapolis	L. S. Ayres & Co.
Muncie	Ball Stores
South Bend	Robertson Brothers

Iowa

Cedar Rapids	Smulekoff's
Des Moines	Younkers
Dubuque	Rosheks
Sioux City	T. S. Martin Co.

Kansas

Coffeyville	Long-Bell Lbr. Co.
Liberal	Long-Bell Lbr. Co.
Pittsburg	Long-Bell Lbr. Co.
Salina	Long-Bell Lbr. Co.
Topeka	C. A. Karlan Furniture Company
Wichita	Hinkel's

Michigan

Grand Rapids	Herpolsheimer's
Lansing	J. W. Knapp Co.

Minnesota

Albert Lea	Skinner Chamberlain
Hibbing	Herberger's
Mankato	Landkamer Bros. Co.
Minneapolis	L. S. Donaldson Co.
New Ulm	Herberger's
St. Cloud	Herberger's

Missouri

St. Louis	Stix, Baer & Fuller

Nebraska

Grand Island	Wolbach's
Lincoln	Gold & Company
Norfolk	Ballantyne's

New York

Geneva	Lauer Furniture Co.

Ohio

Mansfield	The M. O'Neil Co.
Salem	McCulloch's
Springfield	Wren's

Oklahoma

Clinton	Long-Bell Lbr. Co.
Enid	Long-Bell Lbr. Co.
Oklahoma City	Long-Bell Lbr. Co.
Tulsa	Long-Bell Lbr. Co.

Pennsylvania

York	Wiest's

South Dakota

Huron	Fullerton Furniture Company
Watertown	Herberger's

Wisconsin

Manitowoc	Boston Store
Milwaukee	Gimbel Bros.
Oshkosh	Boston Store
Rice Lake	Herberger's

GENERAL ELECTRIC

Farm News

More Power to the American Farmer through more electricity on the farm

FINDS WAY TO BEAT PLANT SHORTAGE!

NOTES FROM THE FIELD
by GEORGE RIETZ, Mgr.
Farm Industry Div., General Electric Co.

It's winter now, but the wise farmer knows he must plan his spring planting soon. There's a good lesson in the story of Barnsley Warfield whose experience with electric hotbeds is described in this month's "Farm News". It illustrates wonderfully one of the best features about electric soil heating — the fact that you know in advance that you're going to get enough seedlings of the right size for spring planting.

That's because the grower has direct control of plant growth when his hotbeds are electrically heated. Germination is high and vigorous uniform plants can be produced.

If you will examine the celery plants on the right in the photograph shown here, you will notice that they are almost twice as tall as those on the left grown in a manure-heated bed. With proof like this, you and your neighbors would do well to check further into electric hotbeds. General Electric has prepared a six-page folder on the subject and I'd be glad to send you a copy. Just check it off on the coupon below.

Celery plants 26 days old. Left, from manure-heated bed; right, from electrically-heated bed.

Maryland grower installs electrically-heated hotbeds; pulls more and better sweet potato plants earlier in the spring

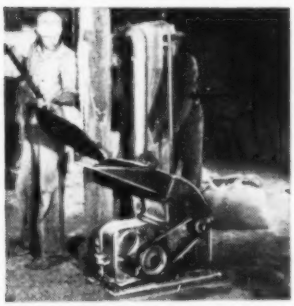
Electric power cable and outlet boxes were installed on the sideboards and G-E heating cable was laid lengthwise in rows about 9 inches apart. A thermostat was used to maintain a uniform temperature in the bed soil.

For years, Barnsley Warfield and his brother Clay of Severn, Md., found that their manure-heated hotbeds did not produce half of the sweet potato plants they needed for their 52-acre farm in Anne Arundel County. They even put in far more seed than was necessary but still the shortage occurred every spring. Finally, two electrically-heated hotbeds, wired with G-E heating cable were installed. Mr. Warfield now has this to say about electric hotbeds.

"Friends of ours, using electrically-heated beds had wonderful results and it was largely because of their success that we decided to try two electric beds ourselves. So, on the fifth of April, we installed them and seeded them the following day. After losing so many plants with manure beds in past years, it was a welcome relief to find plenty of hardy sweet-potato plants ready for the fields by May."

Six weeks after he had seeded his sweet-potato hotbeds, Barnsley Warfield was able to pull these healthy, vigorous plants.

ELECTRIC MOTOR MAKES FEED MIXING EASIER



This 5-hp G-E motor makes quick work of feed mixing for G. E. Bowers.

For ten years a 5-hp General Electric motor has been helping G. E. Bowers of Circleville, Ohio, get his feed mixing done quickly and easily. He says, "I used to use my tractor to drive the mixer but it seemed that every time I had feed to mix the tractor was being used on some other job. Now I get my feed mixing almost done in the time it used to take to hook up the tractor. Besides, on cold winter days it's more comfortable in the feed room with a motor-driven mixer — it's not necessary to open doors or windows to let in tractor belts."

He went on to say, "I have had that same General Electric motor on my mixer for ten years and during that time it has never been out of service once. Except for occasional lubrications and inspections it has required no maintenance."

IT'S NEW . . . IT'S FREE!

The G-E Farm & Home Catalog contains 125 illustrated pages on G-E equipment and appliances. A guide on how to make *all* farm work easier. Send for it now. Use coupon below.

General Electric Company
Section 669-87P, Schenectady 5, N. Y.

Please send me the following bulletins:
GEA-5104 (G-E Farm and Home Motors),
GES-3349 (G-E Soil Heating Cable),
23-27 (G-E Farm Catalog).

NAME .....

ADDRESS .....

.....

★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

(Advertisement)

"Livestock By-Products"

Your life comes into contact many times each day with the by-products of the livestock and meat packing industry.

You may feed Armour tankage to your hogs, and protect them from cholera with Armour serum and virus. Your tractor may have rubber tires made with Armour soap and glycerine. You may eat at a table held together with Armour glue, smoothed by Armour sandpaper, and coated with a varnish containing Armour fatty acids. Your auto seat may be upholstered with Armour curled hair. You may smoke cigarettes kept fresh by Armour glycerine. Armour chemicals may have been used in the baked enamel finish on your refrigerator. Your wife may wash the dishes, the laundry, and the children with Armour soap.

Anemic persons may be kept in good health with Armour liver extract; diabetics may owe their lives to insulin made from animal glands provided by Armour. Your shoes may be made from Armour leather, and your children may play musical instruments made with Armour strings.

Thus, in countless ways, Armour helps make your farm more profitable and your living more comfortable, with by-products that once were wasted. And best of all, these by-products add value to the livestock you raise.

ARMOUR
AND COMPANY

★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

Successful

SHORT CUTS

Build them yourself, save time and dollars

Irvin Luten

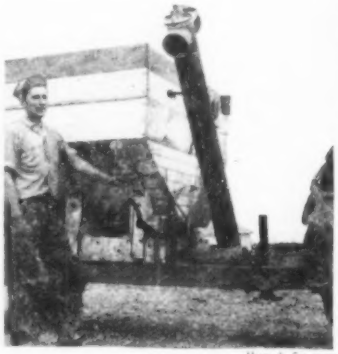
Milk railroad moves cans from milkhouse to roadside for Harold Robinson, near Mount Vernon, Washington. At the roadside, the "railway car" serves as a shipping platform. Robinson made the rails of wood, and covered them with strap iron to make smooth track

Howard Peck

Welding table, made from old washing machine, is timesaver for Willard F. Scholl, near Winnebago, Minnesota. He added lengths of pipe to get height

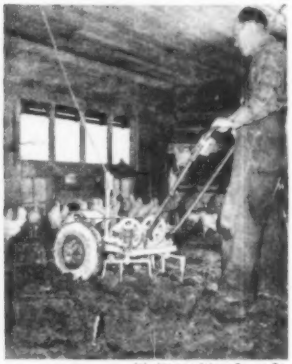
Farrowing houses which can be moved together during the bitter weather, and apart in warm season, are used on the Reed and Kermit Bailey farm, Holt County, Missouri. Each separate house accommodates two litters of hogs, and is mounted on skids

H. M. Dail



Harry L. Spooner

Hauling grain to self-feeders is easy with the device built by Vernon Veach, Roberts, Illinois. He used the front axle of an old truck, and welded a channel iron frame to it. Auger conveyor in bottom carries feed to elevator auger

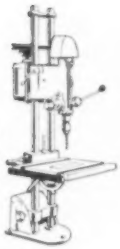


Washington Water Power Co.

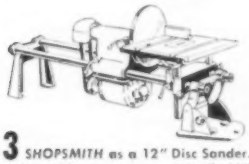
Electric litter stirrer breaks poultry litter into fine particles, and is especially handy now that deep litter is being used. It is used by poultryman Frey Egbert, of Kirkland, Washington, keeps litter dry

SHOPSMITH IS 5

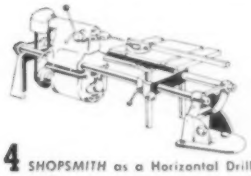
1 SHOPSMITH as an 8" Circular Saw. Depth of cut 2¼". Table 14½" x 17"—with extension 54" x 17". Up to 46" between blade and fence. Table tilts to any angle—positive lock



2 SHOPSMITH as a Vertical Drill Press. Drills to center of 15-inch circle, 27-inch maximum distance from table to chuck, 4¼-inch feed



3 SHOPSMITH as a 12" Disc Sander. Adjustable mitre gauge, 14½" x 17" table tilts to 45 degrees. Discs can be removed and replaced in seconds



4 SHOPSMITH as a Horizontal Drill Press. Brand new in the power tool field! Provides accurate drilling for doweling. No limit on length of work

5 SHOPSMITH as a 34" Wood Lathe. (34" between centers) with a 15-inch swing. Quill feed 4¼ inches. Tool rest always slides parallel to ways

In 60" x 18" space SHOPSMITH is a complete power-tool shop —run by one motor

In less than a minute *SHOPSMITH* converts from any one to any other of the five basic power tools shown here. In each position it has greater work capacity than comparable single-purpose tools. (*SHOPSMITH* converts also to buffer, grinder, router, drum sander, shaper, mortiser, etc.) *SHOPSMITH* is precision-engineered for accurate work on big or small jobs. Ruggedly built—weighs 200 pounds. You can set up a *SHOPSMITH* in any corner of your basement or garage.

See demonstration at any Montgomery Ward store, or your leading hardware or department store. Or mail coupon below for name and address of nearest dealer.

FIVE TOOL UNIT COMPLETE ONLY
$159.50
with ½ h.p. ball bearing motor
$195.50

BIG-CAPACITY TOOLS IN ONE

MAGNA ENGINEERING CORPORATION
465 California Street—Dept. 51
San Francisco 4, California
Please send descriptive folder on *SHOPSMITH* and name of nearest dealer.

Name _____
Address _____
City _____ *Zone* _____ *State* _____

Tried buying a tractor when you feel like this?

WHAT make tractor should you buy?... what size?... how much?

These are mighty important decisions to make when you're feeling logy . . . nagged by a headache—all because you need a laxative!

But cheer up! Gentle, *speedy* Sal Hepatica won't let this happen to you!

Taken before breakfast, sparkling Sal Hepatica brings gentle, natural relief—usually within an hour!

Sal Hepatica also helps counteract excess gastric acidity and at the same time helps sweeten a sour stomach.

No wonder more than half the doctors interviewed in a national survey recommended sparkling Sal Hepatica!

DAY OR NIGHT...GET FEELING RIGHT

with gentle, sparkling

SAL HEPATICA

The laxative that suits your convenience

A PRODUCT OF BRISTOL-MYERS

ASTHMA Sufferers—

Vapo-Cresolene

WORKS WHILE YOU REST!

● Vapo-Cresolene's soothing, medicated vapors help get that much-needed sleep . . . by relieving the paroxysms . . . by making breathing easier. For 68 years, this famous inhalant has been helping to lessen the severity of paroxysms of whooping cough, cough in bronchitis, spasmodic croup, and coughs due to colds. Electric or Lamp-type Vaporizer, directions enclosed. At your druggist's.

For Free Descriptive Booklet, write to. VAPO-CRESOLENE CO., 62 Cortlandt St., N. Y.

New SUB-ZERO

Patented Hybrid Tea

ROSES

● *Hardy even in Canada* — Extremely vigorous. Live years longer than average type.

● *Huge blooms all summer*— Quantities of gorgeous, fragrant blooms continuously.

● *5 varieties*—*V for Victory* (yellow), *Pink Princess*, *Lily Pons* (White), *Shades of Autumn* (bi-color), *Red Duchess*.

Write for FREE CATALOG

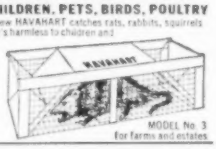
FARMER SEED & NURSERY CO.

12 N. 3rd St. Faribault, Minnesota

AMAZING NEW TRAP CATCHES ANIMALS ALIVE!

CAN'T HARM CHILDREN, PETS, BIRDS, POULTRY

It's amazing how the new HAVAHART catches rats, rabbits, squirrels and other animals, yet it's harmless to children and pets. Simple to set, rustproof. No springs! No jaws! Animal walks in to get bait, and the doors close! Send postal for free booklet.



HAVAHART, 9 No. Water St. Ossining, N. Y.

MODEL No. 3 for farms and estates

DIAMOND

IRON REMOVAL FILTER

Removes iron and other foreign matter which makes water discolored or cloudy. Leaves it crystal-clear and palatable. Moderate cost. Write for free booklet giving full information.

OSHKOSH FILTER & SOFTENER CO. Oshkosh, Wis.

ONE-MAN SAWMILL LESS THAN $225.00

Easy To Turn Trees Into Money

Makes Lumber ties, shingles, crates, lath, stedding, siding.

BELSAW MODELS in 10 to 24 foot sawing lengths. **MECHANICAL FEED**, accurate set works and positive dogs. Use tractor or old auto engine for low cost power. Thousands used for commercial sawing. Pays for itself quickly. Send post card today for FREE booklet, "How To Make Lumber" and Catalog of Woodworking Equipment.

BELSAW MACHINERY CO., 810E Field Bldg. 315 Westport Road Kansas City 2, Mo.

The new movies

BECAUSE of a sad lack of attention, Hollywood has too long regarded its farm audiences as simple-minded, Saturday-night movie-goers, whose idea of entertainment consisted of little, fat men throwing custard pies at big, skinny ones.

We think this notion is as obsolete as Aunt Nellie's horsehair wreath. And, to prove our faith, we took a farmer's wife around with us this month, to pass on the current crop of films. Her judgments, we thought, were solid and discerning—even tho, in some cases, they didn't concur entirely with ours!

Unfaithfully Yours (Fox), for instance, was the subject of some dissension. I felt the story—which revolves around the effects of music on the mind—was too highfalutin. Rex Harrison, as the symphony leader who plots revenge on his supposedly unfaithful wife (Linda Darnell), seemed to me downright insipid; and I couldn't see anything even faintly funny about a dream in which Lover Boy slashes his spouse's wrists with a razor.

My friend, however, was more tolerant. She said the music—including masterpieces of Wagner, Rossini, and Tschaikovsky—might appeal to more cultured minds. Also, the slapstick situations, being just dreams, were actually funny to her!

We'll leave the last word to you!

The Three Musketeers (MGM) was another epic on which we had words. Farm Friend and I agreed the picture is a Technicolor whopper; we enjoyed Gene Kelly and Van Heflin as the swashbuckling heroes, and drooled over the beautiful wardrobes of Lana Turner and June Allyson.

Our point of difference arose over a label for the picture. Because of the happy, infectious attitude of everyone concerned, my friend termed the goings on as "light entertainment." I took the

Treacherous Lana Turner tries to ensnare heroic Gene Kelly in *The Three Musketeers*

Rex Harrison dreams up a suicide revenge vs. Linda Darnell in *Unfaithfully Yours*

demise of Ladies Allyson and Turner more seriously, and called it "romantic adventure."—Again, whatever may be your name for the posy, we think that you'll like it!

About two films, your farm reporter and this editor were in accord. "Excellently done," were our words for Warner Brothers' *June Bride* and RKO's *So Dear to My Heart*.

June Bride, a comedy, stars Bette Davis as an ambitious lady editor of a home magazine. Bob Montgomery is a foreign correspondent assigned to write—of all things—a small-town story on a June wedding!

To put new life in a tale he considers a "typical McKinley stinker," Mr. M. kicks up some shenanigans, causing a near-collapse of magazine and La Davis. Somehow, tho, the deadline is met, and all hands live happily!

So Dear to My Heart is a nostalgic, Technicolor piece about Indiana farm life in the good old days. A combination live-action and cartoon feature, it should delight Disney fans.

The story concerns a farm boy (Bobby Driscoll) who tries to make a county-fair champion of his pet black lamb. Abetting his efforts are "Grandma" Beulah Bondi; blacksmith Burl Ives; and Bobby's little girl friend, Luana Patten.

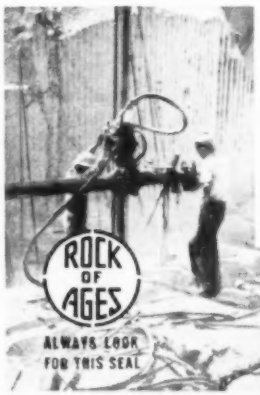
Three live animals—Danny, the ram; General Jackson, a mule; and Dan Patch, the famous pacer, figure in the cast; and among the cartoon figures, Wise Old Owl is a delightful newcomer to the screen!—*Mary J. Tapscott.*

***So Dear to My Heart,* Walt Disney's latest, stars Bobby Driscoll and singer Burl Ives**

"It expresses so perfectly all that we feel"

Your Family Monument, in a lovely and appropriate setting, can have a depth of meaning that transcends all that you can say.

And in choosing a monument, you want beauty and dignity that will continue to express your devotion not alone through the lifetime of your generation but for many generations to come. The monuments in your own cemetery will show you that Rock of Ages Monuments retain their lovely blue-grey color and superb finish undimmed year after year. That is why every memorial sculptured by Rock of Ages carries the Rock of Ages seal and is backed by a bonded guarantee to you, your heirs or descendants.



MANY THOUGHTFUL PEOPLE choose their family monument – as well as their cemetery plot – *before the need arises.* Write for "HOW TO CHOOSE A FAMILY MONUMENT," *a large illustrated book available without charge or obligation. Simply write to Rock of Ages, Barre, Vt. Or ask for a copy from the Rock of Ages Dealer in your community. You'll find his name in the Classified Section of the Telephone Directory.*

ROCK *of* AGES

BARRE GRANITE FAMILY MONUMENTS

Ask your dealer for proof of permanence in any cemetery

Kellogg's NEW CALIF. TYPE

SKINLESS GRAPE

HARDY—DELICIOUS
GROWS WELL IN NORTH

No skins to worry about. Eat the whole grape. You and your customers will be delighted with the flavor. Sweet, tender, juicy. Perfect for pies, preserves.

FREE: Send now for full-color book, "Fruit, Fun and Dollars." Address below.

AMAZING PINK DREAM
AZALEAMUM

NEW 1-IN-A-THOUSAND VARIETY

More than 1000 seedlings discarded for the one chosen in obtaining this rare plant.

600 BLOOMS FIRST YEAR

Grows like magic with hundreds of blooms August till frost, over 1000 2nd year... New Fairyland pink... 11 other delightful colors.

FREE: Write today for Garden Beauty Book. (Request book wanted or both.)

R. M. KELLOGG COMPANY
BOX 246, THREE RIVERS, MICHIGAN

Big Difference

"Tommy," asked the arithmetic teacher, "if you ate two bowls of hot cereal every morning, how many would you eat in a week?"

"What kind of hot cereal?" asked Tommy.

"Oh, any kind—it makes no difference."

"But it does make a difference," protested Tommy. "Grape-Nuts Wheat-Meal tastes better'n any of 'em!"

Advertisement

When it comes to gravy! Make it the easy way...

GRAVY MASTER

makes it taste and look good too

EVERY BOTTLE SHOWS HOW

TRY IT—LET YOUR TASTE DECIDE!

CONDON'S GIANT EVERBEARING TOMATO

"Queen of the Market." Large Solid Fruit. Unsurpassed for home, market or canning. Thick, solid flesh. Fine flavor. Almost seedless. Color, rich red. High in vitamins. Single plants often produce ½ bu. Enjoy this Everbearing Tomato from early Summer until late fall. Write Today for 125 Seeds of this Giant Everbearing Tomato and send a copy of our Big Illustrated New Seed and Nursery Catalog FREE

Send 3c stamp to cover postage or postal for Catalog alone.

CONDON BROS. SEEDSMEN BOX 254 ROCKFORD, ILLINOIS

BE SURE—ORDER EARLY
STRAWBERRIES

The only way to be sure of your plants and have a supplemental to be safely early. We have a few thousand of the Original varieties introduced the days long now Everbearer, Superfection so fully described in our Catalog. Also plenty of Berry, Trees and Shrubs. Write now.

Ackerman Nurseries, 3020 Lake St., Bridgman, Michigan

From ready mixes

[From page 10]

Slide tray of ice cream onto one layer; cover with second layer.
Transfer cake to wooden board covered with heavy paper.
Spread tops and sides with meringue made by beating:
4 egg whites
¼ teaspoon salt until stiff, and adding
½ cup sugar
½ teaspoon vanilla gradually
Cover ice cream and cake completely.
Place in hot oven (425°) for 5 minutes, or until delicately brown.
Transfer to chilled platter; slice.

Double-Rich Stick-Candy Milk Shakes

Serves 4

Follow directions given on package of commercial mix for plain vanilla ice cream.
Fold in ... **½ cup crushed peppermint-stick candy**
Freeze according to directions.
Crush ... **¼ pound peppermint-stick candy**
Add ... **⅛ teaspoon salt**
1 cup milk
Cover; chill 2 or 3 hours; stir occasionally until candy dissolves.
Add ... **3 cups chilled milk** when ready to serve.
Add frozen peppermint ice cream to milk.
Shake or beat thoroly; pour into glasses.
Top each glass with a spoon of **whipped cream**
Sprinkle crushed **peppermint candy** on whipped cream.

Gingerbread Waffle-Ice Cream Sundae

Prepare waffle batter using:
1 package gingerbread mix
¾ cup water
Pour batter onto greased waffle iron.
Bake until done.
Mound ... **vanilla** or **French vanilla ice cream** in center of each waffle section.
Spoon ... **fudge** or **butterscotch sauce** over ice cream.

Cream-Filled Gingerbread Dessert

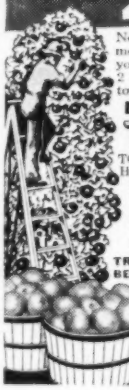
Serves 6

Prepare gingerbread batter from **1 package gingerbread mix,** following directions given on package.
Bake in greased, waxed-paper-lined, 5- by 9-inch loaf pan.
Split loaf in two or three layers.
Spread each layer generously with **sweetened whipped cream**
Put layers together.
Garnish with **English walnut halves.**

Frosted Gingerbread Boys

Combine ⅓ **cup milk**
1 package commercial gingerbread mix
Stir until thoroly mixed.
Chill dough for easier handling.
Roll ¼ inch thick on floured board.
Cut out with gingerbread-man cutter.
Make eyes, nose, buttons, and so forth with **currants, raisins, pieces of dates,** or **cherries**
Bake in moderately hot oven (375°) 10 minutes, or until done.
Draw designs on cookies with **confectioners' sugar frosting.** END

MIRACLE TOMATO Yields 2 BUSHELS To a Vine



Now—You can grow the world's most amazing Tomato right in your own garden and get from 2 to 3 bushels of delicious, ripe tomatoes from every vine.

BURGESS CLIMBING TRIP-L-CROP TOMATO grows 16 to 20 feet high. Huge, meaty, solid fruit, wonderful flavor. Some weigh as much as 2 pounds each. Unsurpassed for canning and slicing. Blight free—drought and disease-resistant. Grows in any garden. Outyields all other varieties.

TRIAL PACKET OF PELLETED BETTER GROWING SEEDS ONLY 10c—3 FOR 25c POSTPAID. ORDER TODAY.

Write for FREE complete Catalog listing many unusual Seeds, Plants and Bulbs.

BURGESS SEED & PLANT CO.
206 T. Galesburg, Mich.

For Quick Cough Relief, Mix This Syrup, at Home

No Cooking. No Work. Real Saving.

Here's an old home mixture your mother probably used, but, for real results, it is still one of the most effective and dependable for coughs due to colds. Once tried, you'll swear by it.

It's no trouble. Make a syrup by stirring 2 cups granulated sugar and one cup water for a few moments, until dissolved. No cooking needed—it's so easy! Or you can use corn syrup or liquid honey, instead of sugar syrup.

Now put 2½ ounces of Pinex into a pint bottle, and fill up with your syrup. This makes a full pint of truly splendid Cough medicine, and gives you about four times as much for your money. It keeps perfectly and tastes fine.

And you'll say it's really excellent for quick action. You can feel it take hold swiftly. It loosens the phlegm, soothes the irritated membranes, and helps clear the air passages. Thus it makes breathing easy and lets you get restful sleep.

Pinex is a special compound of proven ingredients, in concentrated form, well-known for its quick action on throat and bronchial irritations. Money refunded if not pleased in every way.

THE PINEX CO., FORT WAYNE, IND.

FERRIS
Big Beautiful NURSERY BOOK Free!

Eightieth Anniversary 1949 Catalog & Guide

Our finest in 80 years! Gorgeous natural-color illustrations. Wonderful values in

FERRIS NORTHERN GROWN EVERGREENS
Roses • Flowers • Shrubs • Shade Trees
Perennials • Fruit Trees • Berry Plants

Write for Catalog and Special Offer Now! Free Catalog alone—write—

EARL FERRIS NURSERY
200 Bridge St. HAMPTON, IOWA

New and Beautiful QUILT PIECES

Yard and Yards—three pounds. BARGAIN! Beautiful materials. All usable. New crisp Fast colors. ALL NEW! Illustrated designs and patterns included with order. Only $1.69 plus postage. Sent C.O.D. Send NO MONEY. Just a penny postcard or letter. Have satisfied others, perhaps and your $1.69 back if not completely delighted.

$1.69

THE COLONIAL SHOP
Dept. 4a-A Zeigler, Illinois

STRAWBERRIES

Fresh, delicious berries for home and market. High yields on space planted. Allen's Berry Book tells about best varieties and How to Grow Them.

Free Copy. Write today.

W. F. ALLEN COMPANY
25 Evergreen Ave., Salisbury, Maryland

Eat, drink, and be slender

[From page 33]

CEREALS

Calories	
100	Bran flakes, 1 cup
60	Corn flakes, 1 cup
100	Popcorn (no butter), 1 1/2 cups
45	Puffed rice, 1 cup
115	Rolled oats, cooked, 2/3 cup
105	Wheat cereal, cooked, 2/3 cup

DESSERTS AND SWEETS

Calories	
150	Angel cake, 3-inch wedge
210	Apple dumpling, average
200	Apple pie, 3-inch wedge
125	Baked custard, 1
200	Bread pudding, 1/2 cup
400	Chocolate cake (2 layers), 2-inch wedge
450	Chocolate candy bar
60	Chocolate sauce, 1 tablespoon
150	Cream puff, small
100	Cupcake, plain, uniced
150	Custard pie, plain, 3-inch wedge
200	Doughnut, 1 average
100	Fruitcake, 1/2"x2"x2" slice
90	Gelatine dessert (no cream), 1/2 cup
200	Gingerbread, average serving
100	Hard sauce, 1 tablespoon
250	Ice cream, chocolate, 1/2 cup
215	Ice cream, vanilla, 1/2 cup
300	Lemon meringue pie, 3-inch wedge
55	Macaroon, 1
450	Malted milk, all flavors
20	Marshmallow, 1
500	Mince pie, 3-inch wedge
135	Rice pudding with egg, 1/2 cup
200	Sherbert, 1/2 cup
300	Strawberry shortcake (old-fashioned biscuit), with whipped cream
45	Sugar, brown, 1 teaspoon
20	Sugar, white, 1 teaspoon
50	Sugar cooky, 1
425	Sundae, chocolate ice cream, chocolate sauce, nut sprinkled
35	Whipped cream, 1 tablespoon

DRESSINGS AND SAUCES

Calories	
170	Bread stuffing, 1/2 cup
20	Catsup, 1 tablespoon
25	Chili sauce, 1 tablespoon
100	Creole sauce, 1/4 cup
110	Drawn butter, 1 tablespoon
65	French dressing, 1 tablespoon
75	Gravy, 1/4 cup
5	Lemon, 1 husky wedge
90	Macaroni, 1/2 cup
220	Mayonnaise, 2 tablespoons
12	Mayonnaise, reducer's mineral oil, 1 tablespoon
90	Rice, 1/2 cup
50	Salad dressing, 2 tablespoons
100	Tartare sauce, 1 tablespoon
85	Tomato sauce, 1/4 cup
100	White sauce, 1/4 cup

FISH

Calories	
100	Fish, broiled or steamed, lean (bass, cod, haddock, halibut), average serving
185	Fish, broiled or steamed, fat (mackerel, tuna, and so forth) average serving
210	Fish, fried (most fish) average serving
80	Oysters, 4 to 6 medium
110	Salmon, canned, 1/2 cup
40	Sardines, canned, 2, 3 inches long
125	Tuna fish, canned, 1/2 cup

[Turn to page 102

"that's why we both chose a

DEXTER TWIN TUB

EXCLUSIVE DOUBLE SUDSING gets clothes super-clean—does the week's washing in one hour or less—saves hot water and soap! Dexter Twin does the most *perfect* wash you've ever seen—in record time and with money-saving economy. Its two washing tubs give you the unequalled advantage of EXCLUSIVE DEXTER DOUBLE SUDSING—that washes cleaner—*and easier*—without hand rubbing, soaking or pretreating.

WASH HOUR MAGIC

Free! *Write for illustrated booklet "WASH HOUR MAGIC." Gives valuable washing information—tells why DOUBLE SUDSING washes best.*

THE DEXTER COMPANY, Dept. F19, Fairfield, Iowa

WASHES CLEANER • QUICKER • EASIER

Burpee GIGANTIC ZINNIAS

75¢ PACKET **10¢**

Gorgeous blooms, up to 6½ in. across, biggest you have ever seen! Apricot, salmon, orange, yellow, rose, scarlet and other lovely colors, mixed.

Easy to grow! For you to try, we'll mail a big 10c-Packet seeds for just 10c postpaid. Send Dime Today!

Burpee's Seed Catalog FREE.

Burpee Seed Catalog FREE

W. ATLEE BURPEE CO.

509 Burpee Bldg. Philadelphia 32, Pa. OR 509 Burpee Bldg. Clinton, Iowa

Vaughan's Gardening Illustrated

PACKED with up-to-date gardening instructions, this beautiful book pictures in full color the newest, loveliest flowers you can grow, including this year's introductions. 250 color plates. Lists 2500 varieties of roses, dahlias, annuals, perennials. Offers seeds, bulbs and accessories of same high standard Vaughan has supplied to florists since 1878. Also seed killers, insecticides. Send for it today. Mailed free on request.

SPECIAL FOR 1949. Giant Scabiosa, a new type of this lovely flower. Blossoms are 3" spheres of broad-fringed petals in soft tones of coral, salmon, rose, blue. Packet of seed with catalog, 10c.

SEND FOR FREE CATALOG

VAUGHAN'S SEED STORE
Dept. 281, 10 W. Randolph St., Chicago 1, Ill.
47 Barclay St., New York 7, N. Y.

Please send me a FREE copy of your beautiful catalog. Enclosed is 10c for packet of New Giant Scabiosa seed.

Name _____

Address _____

Eat, drink, and be slender

[*From page 101*]

FOWL

Calories	
160	Chicken, creamed, ½ cup
330	Chicken, fried, 1 thigh and 1 leg
180	Chicken, roast, 1 thigh and 1 leg
500	Chicken pie, with biscuit, ⅔ cup
170	Duck, roast, ¼ breast and 1 thigh
160	Turkey, average serving

FRUITS AND FRUIT JUICES

Calories	
160	Apple, baked, sweet, 1 medium
80	Apple, fresh, 1 medium
135	Applesauce, sweet, ½ cup
45	Apricots, canned, with syrup, 3 halves
100	Banana, 1 medium
85	Cherries, Royal Anne, with syrup, 12 large (½ cup)
100	Cranberry sauce, sweet, ¼ cup
65	Fruit cocktail, ½ cup
110	Grape juice, ¾ cup
45	Grapefruit, ½ medium
80	Grapefruit juice, unsweetened, ¾ cup
80	Grapes, medium bunch
5	Lemon juice, 1 tablespoon
15	Olive, green or ripe, 1 medium
50	Orange, 1 medium
85	Orange juice, ¾ cup
75	Peaches, canned, with syrup, 2 halves
75	Pears, canned, with syrup, 2 halves
85	Pineapple, canned, with syrup, 1 slice
90	Pineapple juice, ¾ cup
200	Prunes, stewed, 4
25	Raisins, seedless, 1 tablespoon
175	Rhubarb sauce, sweet, ½ cup
40	Tangerine, 1 average
40	Tomato juice, ¾ cup

JAMS, JELLIES, AND SPREADS

Calories	
85	Corn syrup, 1 tablespoon
65	Honey, strained, 1 tablespoon
60	Jam, 1 tablespoon
45	Jelly, 1 tablespoon
50	Maple syrup, 1 tablespoon
85	Marmalade, orange or fruit, 1 tablespoon
50	Molasses, 1 tablespoon
105	Peanut butter, 1 tablespoon

MEATS

Calories	
95	Bacon, 3 crisp strips
225	Beef, corned, canned, average serving
100	Beef pot roast, lean, average serving
100	Beef rib roast, lean, average serving
235	Beefsteak, ½ sirloin
100	Bologna sausage, medium, ½-inch slice
150	Frankfurter, 1 large
100	Ham, smoked, lean, boiled, average serving
100	Lamb, leg, roasted, average serving
100	Lamb, rib chop, lean only, 1
120	Liver, average serving
200	Pork chop, lean only, 1
200	Pork loin roast, lean, average serving
270	Pork sausage, 1 patty
330	Spareribs, 4 ribs
320	Swiss steak, 1½"x2½"x3"
195	Tongue, average serving

Can You Equal This Home for $475

Shipped Direct from Our Mill

Save 30% to 40% on Your New Home.. Act Now!

Don't pay several hundred dollars more than necessary when you build a home! Buy it direct from our mill at our low factory price. We ship you the materials—lumber cut-to-fit, ready to erect. Paint, glass, hardware, nails, etc., all included in the price—no extra charges. Plans furnished—also complete building instructions. No wonder our customers write us that we saved them 30% to 40%. Prices subject to change without notice.

BIG BOOK of House Plans in Colors 25¢

Handsome Big CATALOGUE

Pictures wonderful homes in colors at money-saving prices. Designs to suit everyone. Send 25c for catalogue today.

LEWIS MANUFACTURING CO.
1991 Lafayette Ave., Bay City, Michigan

Henry Field's Gorgeous Camellia-Type Tuberous **Begonias**

EASY TO GROW Indoors or Out

SPECIAL FRIENDSHIP OFFER

4 varied colors FOR 10¢

You'll say these Camellia-like Begonias are about the prettiest you've ever seen. Fine for moist, shady spots—window boxes, or bedding. These garden beauties will be a real joy to grow. Am also sending my big new catalog, and a FREE subscription to my magazine "Seed Sense" . . . all postpaid to you. Just send 10c today.

HENRY FIELD Seed & Nursery Co 319 Elm St., Shenandoah, Iowa

NEW! Scab Resistant RUSSET SEBAGO POTATO

Developed and recommended by the Wis. College of Agriculture. Similar to Sebago, but is also resistant to scab, as well as late blight. Beautiful, smooth, large oval-shaped tubers. Cooks white. Excellent yielder.

Special Introductory Offer

Write now for trial planting of 150 eyes from Wis. Certified Stock. Will be mailed post paid in time for planting. $1.75

ASK FOR FREE SEED BOOK

L. L. OLDS SEED CO.
DEPT. 59 MADISON 1, WIS.

Grow New Giant RASPBERRIES large as a Nickel

NEW MORRISON, Giant of the Black Raspberry Family, stands head and shoulders above other standard varieties. Ohio Grower Says, "During one of the most serious spring droughts in history, the MORRISON RASPBERRY produced a heavy crop of fine berries—while other standard varieties in this section were small, seedy and almost a failure." Read all about them in our free catalog full of bargains in plants, trees, shrubs, etc. Write today.

Ackerman Nurseries, 5120 Lake St., Bridgman, Mich.

60 DAY **TOMATO-FREE**

New Firesteel, most Amazing Tomato ever introduced. Beautiful Red clear thru. Extremely Early, Large Fruits. Heavy Cropper. Trial Packet Free. Also Big Bargain Catalog of Seeds, Plants, Bulbs, etc., Free.

ALNEER SEED CO., Blk. 28, Rockford, Illinois

STAMPED LINENS at ½ PRICE

FREE 24 PAGE CATALOG

Buy quality stamped goods direct from manufacturer—save one-half. Over 100 new items—pillow cases, seamless pillow tubing, show sheets, scarfs, bridge sets, luncheon sets, table cloths, show towels, bedspreads, aprons, infants' garments, Imported Linens and Novelties. Complete embroidering instructions free. It's easy. Write:

MERRIBEE ART EMBROIDERY CO.
Dept. 270 22 W. 21st St., New York 10, N. Y.

TOMBSTONES DIRECT TO YOU $9.95 UP

Genuine beautiful ROCKDALE Monuments, Markers. Satisfaction or MONEY BACK. Freight paid. Free catalog. Compare our prices.

• EASY TERMS

Rockdale Monument Co., Dept. 441, Joliet, Ill.

EASY! EASY!

Luscious Bran Muffins . . . with Raisins!

Tasty Kellogg's All-Bran and luscious raisins . . . a mouth watering flavor combination!

2 tablespoons shortening
¼ cup sugar or molasses
1 egg
1 cup Kellogg's All-Bran
¾ cup milk
1 cup sifted flour
2½ teaspoons baking powder
½ teaspoon salt
½ cup raisins

Blend shortening and sugar thoroughly; add egg and beat well. Stir in Kellogg's All-Bran and milk. Let soak until most of moisture is taken up. Sift flour with baking powder and salt; stir in raisins. Add to first mixture and stir only until flour disappears. Fill greased muffin pans two-thirds full. Bake in a moderately hot oven (400°F.) 25 to 30 minutes. Make 9 marvelous muffins.

America's most famous natural laxative cereal—try a bowlful today!

Kellogg's ALL-BRAN

BIGGEST STRAWBERRY VALUE!

STREAMLINER EVERBEARING STRAWBERRY

25 Certified Plants FOR ONLY $1.00 POSTPAID

Extra large, red delicious berries can be picked right in your own garden 10 weeks after planting this Spring and right up to frost. Order these productive, selected plants—we will ship at your proper planting time.

FREE CATALOG—of berries and fruits in color—sent with each order—from World's Largest Growers-Shippers of Berry Plants.

TOWNSEND NURSERIES, INC.
111 VINE STREET • SALISBURY, MD.

WILL'S Beautiful SEED BOOK Free!

Ready now, the marvelous new 1949 WILL'S CATALOG celebrating our 67th year. 80 pages. FREE. Beautiful, colorful, filled with finest illustrations and valuable information about Will's hardy, dependable Pioneer Seeds and Plants. Everything in flowers, vegetables, fruits, berries, trees, evergreens, farm seed and original Pioneer Hybrid Corn. Many lovely floral novelties from our Great Plains country—rich, new Hardy Tomato, and other exclusive varieties. SPECIAL LOW PRICES. Write today for your copy. Write today.

OSCAR H. WILL & CO., Box 930, Bismarck, N. Dakota

100th YEAR

Exquisite, Unusual

GIANT MUM

Send for FREE BOOK

Saucer-size greenhouse variety . . . GOLD LODE . . . featured in our 100th anniversary catalog. Also giant English, button, cushion, spoon, exhibition and other prize chrysanthemums. ROSES, BULBS, SHRUBS, etc. Write today for this unusual, informative, colorful FREE CATALOG.

SPRING HILL NURSERIES Tipp City, Ohio Dept. K-53

SALADS

Calories	
30	Aspic, ½ cup
205	Chef's salad bowl, 1 serving—it's the dressing!
15	Coleslaw, ½ cup, with vinegar
160	Cottage cheese, ½ cup
35	Perfection salad, ½ cup
200	Potato salad, ½ cup
240	Waldorf salad, ½ cup

SANDWICHES AND STAPLES

Calories	
160	Macaroni and cheese, ½ cup
130	Omelet, 1 egg
290	Sandwich, bacon and tomato, 2 slices bread
325	Sandwich, cheese, 2 slices bread
300	Sandwich, ham, 2 slices bread
390	Sandwich, hamburger, 1 bun
365	Sandwich, peanut butter, 2 slices bread
290	Spaghetti with meat sauce, 1 cup
155	Spanish rice, ¾ cup

SOUPS

Calories	
120	Asparagus, cream of, 1 cup
235	Bean, 1 cup
160	Celery, cream of, 1 cup
75	Chicken, 1 cup
155	Corn, cream of, 1 cup
225	Oyster stew, 1 cup
165	Pea, cream of, 1 cup
200	Potato, 1 cup
155	Tomato, cream of, 1 cup
90	Vegetable, 1 cup

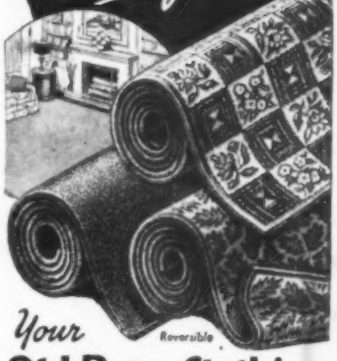
VEGETABLES

Calories	
15	Asparagus, 6 stalks, 5 inches long
250	Beans, baked, with pork and molasses, ½ cup
35	Beans, green, ½ cup, 1-inch pieces
130	Beans, Limas, fresh, ½ cup
45	Beets, ½ cup, diced
15	Cabbage, shredded, ½ to ⅔ cup
45	Carrots, ⅔ cup diced, or 1 large
30	Cauliflower, 1 cup
10	Celery, 2 stalks, 7 inches long
100	Corn, ½ cup canned
2	Lettuce, leaf, 1 large
50	Onions, 2 to 3 small or 1 large
65	Peas, canned, drained, ½ cup
100	Potato, baked, 1 medium
100	Potatoes, creamed, ½ cup
200	Potato, sweet, 1 medium
100	Potatoes, French fries, 8
100	Potatoes, mashed, ½ cup
25	Sauerkraut, ⅔ cup
20	Spinach, fresh, ½ cup cooked
45	Squash, winter, ½ cup mashed
20	Tomato, canned, ½ cup. END

SUCCESSFUL FARMING

"Follow this trail of crumbs 'til you come to a baldish man of about forty and tell him his wife would like a word with him!"

Olson Rug "Magic"



Your Old Rugs, Clothing Save You up to ½

It's All So Easy! Write for big Free Olson Rug *Catalog* (and *Decorating Guide*) that tells how your materials are picked up at your door and shipped at our expense to the Olson Rug Factory, where . . .

By the Olson Process we sterilize, shred, merge materials of all kinds—reclaim valuable wools, etc., then bleach, picker, card, spin, redye, weave deep-textured

New Reversible BROADLOOM RUGS in sizes up to 16 feet wide, seamless, and any length, in

Solid Colors · Rich Tweed Blends
Leaf Designs · 18th Century Floral
Early American · Oriental patterns

FACTORY-TO-YOU. Satisfaction guaranteed. Over two million customers. We do not have agents nor do we sell through stores.

Our 75th Year!
Chicago New York Frisco

FREE Catalog in Colors

MAIL COUPON or 1¢ POSTAL to
OLSON RUG CO., N-43, Chicago 41, Ill.

Please mail the Olson Catalog FREE to:

NAME _____
ADDRESS _____ © ORC 1948
TOWN _____ STATE _____

BLUE SPRUCE 5 FOR $3.

Very superior stock. Well-rooted & your choice 8-14" tall. Sent post paid at planting time.

MUSSER FORESTS, Inc., Indiana, Penna.

FREE! for your baby

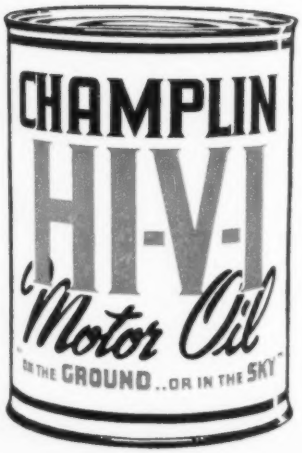
★ HAVING A BABY? Send for this Baby kit! You get: 1. Book of 2000 names and their meanings. 2. Sample of flower-fragrant New Mennen Baby Oil with Lanolin. 3. Sample of New Mennen Baby Powder. 4. Pictorial Baby Care Guide. 5. Shopping list of baby needs. (Offer good in U.S.A. only, expires Dec. 31, 1949.)

The Mennen Co., Dept. SF-19
Newark 4, N. J.
Please send me a free baby bundle.
Name _____
Address _____
Date baby expected _____

COLD

January weather—

HI-V-I FLOWS FREELY!



Silence the cold "whoosh" of January winds with the comforting sound of a motor that turns over instantly. HI-V-I bathes car and tractor motors in a protective film of lubrication. It cleans as it lubricates, freeing motors of corrosion and sludge. This cuts fuel consumption to a new low . . . keeps motors ready for the "go" signal on the coldest January days.

For faster starts and better lubrication in zero weather, use HI-V-I, the free-flowing oil.

a product of
CHAMPLIN REFINING COMPANY
Enid, Oklahoma
Producers, Refiners, Distributors of
Quality Petroleum Products Since 1916

USE CHAMPLIN OILS

What's ahead for farming

[From page 29]

Hogs The farmers have bred more sows—and probably have bred them earlier—for spring farrowing. Feed supplies and the demand for pork justified this. If demand holds and corn prices stay low in relation to pork prices, more heavyweight hogs will move to market in the spring and summer. Prices are expected to weaken more than normal late in the fall hog run. Early-spring farrowing, making early-fall marketing possible, will pay dividends. It isn't expected, however, that hog prices will fall to support levels during the hog-marketing year.

Beef Cattle feeding usually expands when feed supplies are plentiful. Farmers will feed to heavier weights, and there will be keen competition between immediate slaughter and feedlot operations. The present situation points to profitable cattle feedings. However, with feeders at present prices, it will pay to be careful.

Grains With the large supply, feed-grain prices are expected to average about one-third lower this winter than last. Supplies of soybeans and other oil seeds also are at record levels. This could be a good time to lay in a supply of feed if you are going to need it.

Fruits and vegetables

Production and prices in 1949 are not expected to differ greatly from last year. Demand here at home will be about the same, altho exports, which have never been large, may be even smaller. Prices growers get for individual crops, of course, will be affected by any marked change in production.

No more than normal working stocks of canned or frozen vegetables are expected to remain in the hands of packers and wholesale distributors at the beginning of the 1949 pack season. Supports on potatoes will be lower.

Cost of living

On the farm, family-living side of the outlook picture, there seems to be little chance of a substantial drop in the high cost. With prices up less for furnishings and equipment than for food and clothing, farm families probably will continue heavy purchases of these goods if general economic conditions don't become too unfavorable.

Farm prices Whatever happens, farm prices will continue to follow the trend of the general price level but will fluctuate around it, depending on the demand and supply of food and fiber. Beginning with the collapse of prices in 1920, farm prices were the first to decline. Farm prices remained below parity for more than 20 years, averaging about 87 percent of parity during the twenties and about 75 percent during the thirties.

In the past few years, farm prices have ranged between 10 and 20 percent above parity, wholesale prices of nonfarm products, and the general price level. Farmers, tho, may be expected to lose this unusual advantage during the next year or two

thru a decline in farm prices, a rise in costs, or both.

Even if this country avoids a sharp drop in prices and business activity, a decline to parity prices for farm products would mean a substantial decrease in net farm incomes. Such a thing could seem to many farmers like a recession in comparison with recent years. Such a decline is generally expected by farmers but it will not be enjoyed.

Household equipment

Because of government demands for steel for military uses, and for the rehabilitation of Western Europe, the supply of the larger household appliances may be uncertain, and it appears now that prices will be no lower.

Small household equipment and furniture are more plentiful, but don't expect substantially lower prices. It's gone far enough, however, so that the days of shopping around for bargains are coming back. "Asking prices," in general, are expected to be about the same as they were in 1948.

Clothing

Wholesale textile prices have declined, and retail sales at reduced prices in many stores indicate production has caught up with demand. The supply of woolens is good, rayon and cotton production high, but if the general price level holds, clothing prices are not likely to decline severely.

Industrial production

So, in spite of the boom level of general business activity, a few industries, mostly those making consumer goods, have had difficulties because their output has exceeded demand at quoted prices.

So far, these adjustments in production and prices have been limited to one or two industries and crops at a time, and have not been too serious because of continued high levels of consumer spending.

If this process of piecemeal adjustment continues, it might be possible to get down gradually from boom heights to firmer ground without a smashup. If a sharp break in the general price level should occur, however, demand for all commodities would decline, and we would have the general underconsumption which always occurs in depression times. This is popularly, but erroneously, called overproduction.

If such a depression hits us, probably it will be of short duration. After the readjustment, there are excellent prospects for several years of high production and employment to catch up on the shortage of durable goods. This would be a time of reasonable prosperity for you and others who have managed their business so they are not burdened with heavy debts.

Cautious farm operation

There are bound to be some uncertainties ahead for you—perhaps somewhat higher prices for the things you buy and lower for those you sell, perhaps a continued boom for a while and then a recession; certainly, big government spending for arms and for rehabilitation of Western European countries, certainly some anxiety about relations with Russia. In view of this outlook, cautious, conservative farm operation obviously is the soundest policy to follow. END

How's Your Inventory on

PROTECTION?

NO INVENTORY of your possessions is complete unless you inventory your insurance protection as well.

Farm property, equipment and livestock can be counted as possessions for certain only when you have guarded against their loss by fire, lightning, windstorm and the many other insurable perils which threaten.

The America Fore Farm Agent is an expert on farm insurance. He can tell you what coverage you need for proper protection. Consult him without obligation. If you decide to follow his recommendations, he can provide you with insurance protection that is sure and nonassessable, in the soundest and biggest insurance companies in the world.

THESE FIVE COMPANIES COMPOSE THE AMERICA FORE INSURANCE GROUP

CONTINENTAL • FIDELITY-PHENIX • INSURANCE • AMERICAN EAGLE

FIDELITY AND CASUALTY COMPANY OF NEW YORK

America Fore
• INSURANCE GROUP •

NOW—
ADDED GEARS
for YOUR TRACTOR

Speeds up your old model
JOHN DEERE A or B

New intermediate speed for
FARMALL H or M

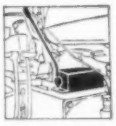
A real road gear for
FARMALL F-20, F-30
or REGULAR MODEL

NEW
IMPROVED Behlen
GEAR BOX

JOHN DEERE A or B

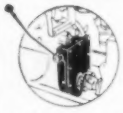
Put new speed in your old model John Deere A or B. Makes it many times more useful. New Behlen Gear Box adds two extra speeds—9 and 15 m.p.h. Does not interfere with present gears. Just shift gear. Think of the time you can save. Precision-built. Fully guaranteed. Worth many times the amazing low price.

FARMALL H or M



Here's that in-between speed you've been wanting for your Farmall H or M. New Behlen Gear Box gives you intermediate speed of 10 m.p.h. Especially valuable for field work—bucking hay, corn picking and the like. Or if you prefer, you can have 7 m.p.h. gear box. Quickly, easily installed. Guaranteed. Low priced.

FARMALL F-20, F-30 or REG. MODEL



Now do 14 to 15 m.p.h. on your old Farmall F-20, F-30, or Regular Model. Just shift gear and away you go. Gear box for 10 m.p.h. also available for F-20 and Regular Model only. Easy to install on tractor with or without hydraulic Lift-All Pump. Thousands in use today.

Get the full story on the New Behlen Gear Box. Write for name of Behlen dealer nearest you. Please indicate make of tractor you are interested in.

BEHLEN MFG. CO.
Dept. 628 Columbus, Nebr.

BurpeeSeedsGrow
Send postcard or letter for the Burpee Seed Catalog FREE
W. ATLEE BURPEE CO.
586 Burpee Building Philadelphia 32, Pa. OR 586 Burpee Building Clinton, Iowa

New spray knocks mange

Hog-raisers are having good luck with BHC. Field tests check with farm findings

By Harold Severson and C. E. Hughes

NEXT time your hogs start scratching because of mange, remember the experience of Art Bohnsack, Scott County, Minnesota. Chet Graham, the county agent, had told us that Art was one of the first in his county to use benzene hexachloride (called BHC for short) to control mange.

Success with hand sprayer. "It's the real stuff," Art declared emphatically. "I had never run into mange until I bought two sows at a sale. First thing I knew, all my sows and their pigs were mangy. So I tried out two different kinds of mange oil. Neither did a bit of good.

"Then I remembered an article about new pest killers in *Successful Farming* (February, 1948), so I bought a pound of benzene hexachloride and mixed it with 2½ gallons of water. Then I penned up all 95 of my pigs and poured the BHC on them, using a 3-gallon hand sprayer.

"There's no question about the effectiveness of benzene hexachloride," Art continued. "I haven't had a bit of trouble since that one application."

Worked for others, too. Over in Goodhue County, Minnesota, lives Vernon Perkins, a dairyman and hog producer. Vernon is one of those farmers who wants everything to function perfectly. So when his pigs showed up mangy, he asked his brother-in-law, a veterinarian, for advice. It came in the handy form of a can of BHC.

"I penned up those pigs in a little pen, and then I sloshed them with a solution of the benzene hexachloride," Vernon relates. "Those pigs almost went crazy. They climbed all over one another and in doing so they got that solution rubbed on their sides and bellies. The mange disappeared."

Raymond Grassman of Le Sueur County, Minnesota, had a bunch of 61 April-farrowed pigs that really were mangy.

"They'd scratch and scratch to the point where it was impossible for them to put on any weight," he recalls. "Their ears were just twisted out of shape. I guess it was about as bad an outbreak of mange as a fellow would ever want to see.

"Well, I tried some mange oil, but it didn't do any good. Then the vet over at New Prague suggested that I use this benzene hexachloride.

"No, I didn't get rid of the mange in a single treatment. I followed directions all right, but it took seven applications. The pigs are doing all right now, and their coats are nice and smooth."

Dipped his pigs. James Grass, Steele County, Minnesota, is a Spotted Poland China breeder who follows every rule on hog sanitation. So when a local veterinarian advised him to use BHC to clean up his pigs before they got into the pasture, Jim did just that. He fixed up a solution in a tank and put each pig into it, completely submerging them to make certain the chemical reached every spot.

"It did a first-class job of cleaning up those pigs," he relates, "and we've had no trouble at all with mange since we began using BHC."

Tried sprinkling can. Talk to George Sohm, also of Le Sueur County, Minnesota, and you get a vote of confidence in BHC's ability to control mange.

"We bought some spring pigs," he relates, "and soon found they were mangy. Upon the advice of a local veterinarian, we bought some BHC and mixed it with water. Then we sprinkled the pigs from an old sprinkling can, and it looks as if this new chemical has done the business."

Used power sprayer. Running pigs into the lot next to the barn and using a tractor-mounted power sprayer was the method which spelled success for Marion Steddom, Polk County, Iowa. He found that something less than 150 pounds pressure was plenty. By wetting the pigs' backs, enough ran down to take care of their bellies.

Dusting in cold weather. Most of the hog-growers interviewed used BHC as a spray, but it can also be applied in powder form. Experts advise the use of the powder in cold weather. Just sprinkle the powder on the pigs' backs and let some of it sift into the straw. This controls the lice and the mange quite effectively.

Ray L. Cuff, regional manager of the National Livestock Loss Prevention Board, Kansas City, Missouri, has had a world of experience using BHC on farms and ranches of Missouri and Kansas. He prefers spraying, if the weather is not too severe, because it's easier to get complete coverage. Cuff says, however, that an effective job can be done by dusting BHC over the hogs' backs.

He told of the experience of W. C. Rickel, Basehor, Kansas, whose hogs were so wild that he didn't think the job could be accomplished thru spraying. At night the hogs slept in an open-front shed, so Cuff suggested that Rickel sprinkle 4 pounds of BHC dust thru the straw in this 50- by 100-foot structure.

Rickel, delighted over ridding the hogs of both mange and lice, exclaimed, "There's nothing to it." But Cuff warns that it isn't perfect. True, the process did a perfect job for Rickel, but it might fall a little short of that accomplishment with the next fellow.

Some don't like smell. Several farmers have expressed their dislike for the

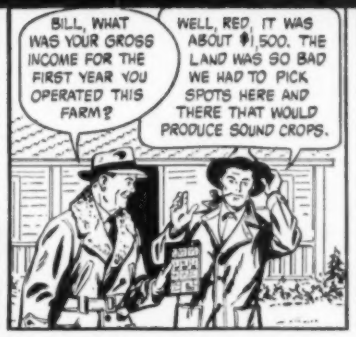
[*Turn to page 108*

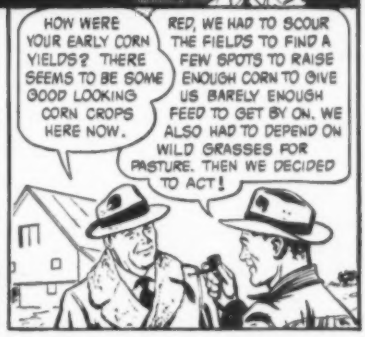
"RED" BRAND visits BILL ROPER

"Red" Brand is the helpful, friendly dealer who sells the farmers around here many of the things they need (including Red Brand Fence and Red Top Steel Posts).

Just a few miles outside of "Red's" community Bill Roper operates a 152 acre farm. Five families used to share-crop this farm with cotton alone. By working hard all year these families were lucky to make 3 bales of cotton.

The other day Bill Roper told "Red" about the amazing results he has experienced since putting a practical land use plan to work. Let's join "Red" and Bill as they leave the farm house.

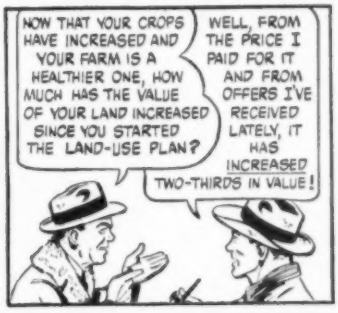




Most of our land is rolling and, as a result, our fields were badly eroded. We called in our local soil conservationist. He was glad to work with us in improving the general condition of the land and, at the same time, increase the money we were making.

The first thing he did was make a map of the entire 152 acres showing the great need for terracing. Then the soil was carefully analyzed. When the conservationist had completed his preliminary work he was able to tell us how much fertilizer was needed to rebuild the quality of the soil and also where to place our terraces to better conserve water and stop erosion.

More important, he suggested a crop plan that would result in better yields and at the same time we would be putting new life into the land. You see, we had been destroying our grass and limiting ourselves to one crop—cotton. Now we sell our grass—at a good profit.



You can learn more about the advantages that practical land use has for you and your farm by tuning in on stations WTMJ, WSPD, WGL, WLS, WHO, KFAB twice each week. "Red" Brand takes you directly to the farms on which practical land use has benefited the farmer the first year the program was put into use.

Be sure to ask your local Red Brand dealer for your free copy of the illustrated practical land use booklet. In these booklets you will find valuable hints that may mean easier, more profitable farming for you. If your dealer does not have a supply of these helpful farm booklets, write to us.

KEYSTONE STEEL & WIRE COMPANY, PEORIA 7, ILL.

RED BRAND FENCE

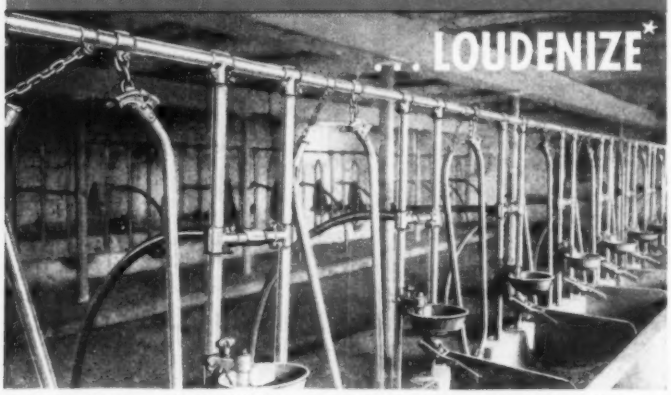
RED TOP STEEL POSTS

POULTRY NETTING • NON-CLIMBABLE FENCE

NAILS • BALE TIES • GATES

A Practical Land Use Plan Benefits Any Farm . . . Anywhere

THE BEST WAY TO INVEST TODAY'S FARM DOLLAR...



FOR STALLS, STANCHIONS or any other barn equipments, see your Louden dealer. He can help you LOUDENIZE—best way to invest today's farm dollar.

There never was a time when Loudenizing your barn could pay greater dividends—or cost less in farm products. Year after year, Louden Equipment saves more time and labor—HELPS YOU MAKE MORE MONEY.

In 1867, Louden established the Barn Equipment industry. Louden's record since has been a steady procession of "firsts"—Steel-Stalls, Automatic Water Bowls, Litter Carriers.

For help in modernizing your present barn — or designing a new one — look to Louden and your local Louden dealer. If you don't know his name, write us.

THE LOUDEN MACHINERY CO. Fairfield, Ia.—Albany, N. Y.

*to modernize with LOUDEN equipment
- stalls & stanchions
- milking parlors
- litter & feed carriers
- water & salt bowls
- cow, calf, bull pens
- hay unloading tools
- hay drying systems
- ventilating systems
- barn windows
- barn door track
- horse-barn equipment
- hog-house equipment
- barn plan service

LOUDEN since 1867 always first in **BARN EQUIPMENT** . . . and Barn Plan Service

The BEAR CAT

NEW Adjustable Drop-Apron FEEDER

COMBINATION Grain and Roughage Mill also Ensilage Cutter

Model 2A-DFI

Grinds any feed green, wet or dry. Snapped or ear corn, roughage bundles or bale flakes and no monkey business. It really grinds, and with ordinary farm tractor. Has both cutter head and heavy swing hammers. Adjustable Drop-Apron Feeder works in any position from ground to truck bed height. Get full information on this real honest-to-goodness Bear-Cat Grinder. Four sizes. Write—

Western Land Roller Company, Box 306, Hastings, Nebr.

LOOK for Rupture Help

Try a Brooks Patented Air Cushion appliance. This marvelous invention for most forms of reducible rupture is GUARANTEED to bring YOU heavenly comfort and security—day and night—at work and at play—or it costs you NOTHING! Thousands happy. Light, neat-fitting. No hard pads or springs. For men, women, and children. Durable, cheap. **Sent on trial** to prove it. Not sold in stores. Beware of imitations. Write for Free Book on Rupture, no-risk trial order plan, and Proof of Results. Ready for you NOW!

BROOKS APPLIANCE CO., 182-C, State St., Marshall, Mich.

OTTAWA TRACTOR SAW

350 SAW STROKES PER MINUTE

Costs Too Little To Do Without

Falls trees quick—no lifting, pulled by tractor—easily swung into position. Saws large and small logs. Safety Friction Clutch. The most useful, low-priced tractor saw ever built. Thousands in use—NEW improvements making more useful than ever. Saw your wood lot into Cash while prices are high. Make your tractor pay bigger dividends. Lowest direct-to-user prices. Fully guaranteed. Free details.

OTTAWA MFG. CO. 4-923 Forest Ave., Ottawa, Kans.

I WANT EVERY READER of this Paper to have my big new SENSATION TOMATO

"KING OF THE EARLIES"

Big solid, scarlet fruit, disease resistant, heavy yielder. Ideal for table or canning. Send only 3c stamp today to cover postage for 125 seeds and I will include my Big New Seed, Plant and Nursery Catalog. **FREE**

R. H. SHUMWAY SEEDSMAN Box 667 Rockford, ILL.

STANDARD GARDEN AND SMALL FARM TRACTORS

Plow Seed Cultivate Mow Hay and Lawns

Powerful Gas Tractors for Small Farms, Gardeners, Florists, Nurseries, Fruit Growers, Poultrymen.

1 & 2 Cylinders

High Wheels, Rubber or Steel Tires. Walk or Ride. No Belt Work. *Free Catalog*

STANDARD ENGINE CO.
MINNEAPOLIS, MINN. 3235 Como Avenue
NEW YORK, N. Y. 611 West 26th Street

New spray knocks mange

[*From page 106*]

odor of BHC. For instance, Marion Steddom, tho highly pleased with the effective job of ridding his pigs of mange, said he hoped that something else, such as chlordane, would come along. He told how the shirt he wore while spraying smelled up the rest of the clothes when his wife put them thru the washer.

Bill McGinnis, Washington County, Iowa, also likes BHC fine, but doesn't believe the smell is good for the hogs. For that reason, he still keeps a barrel of oil around. However, he believes that BHC is all right if the hogs are sprayed outside of their sleeping quarters.

The U.S.D.A. reported recently that, according to their observations, commercial BHC had produced no physical discomfort or other injury to the hogs. The musty odor of the chemical left the hogs within two days, but two weeks were needed for complete disappearance from the shelters where the animals were sprayed. And Ray Cuff told us that he had never had any difficulty with the common uses of BHC.

Does BHC taint pork? Going hand in hand with the discussion of odor is the question of whether spraying with BHC will taint the pork. There's some difference of opinion on this question.

Ray Cuff said he knew of no instance where such a thing had occurred, but he urged hog-raisers to guard against getting BHC in either the feed or water. He added that Dr. E. W. Laake, senior entomologist, U. S. Bureau of Entomology, sprayed 2 hogs with a solution mixed at the rate of 40 pounds of BHC (6 percent gamma isomer) to 100 gallons of water. That's 5 times the rate that Cuff now recommends. The hogs were slaughtered the day after spraying, and the meat was distributed among 13 families. But not a one complained of their pork being tainted or unfit to eat.

Cuff told of one man who had 4,000 garbage-fed hogs, all mangy. After some urging, he tried BHC, mixing 8 pounds to every 100 gallons of water in a concrete vat which the hogs used in the summertime as a wallow. When these hogs went to slaughter, not a word of complaint was made by the processor about tainted pork.

Despite all this, some people advocate that from two to four weeks be allowed between spraying and marketing time.

Cuff said that several manufacturers now were putting out brands of BHC from which most of the smelly part (found largely in the delta isomer) had been removed. He added that it would take the same concentration of the gamma isomer to get the job done.

Furthermore, it's a good idea, he said, to study the recommended concentrations on the label, because some preparations have a higher percentage of active ingredient than others.

Does BHC poison hogs? When going into the matter of toxicity of BHC, or any other of the new chemicals, you're heading down an avenue that needs a lot more investigation.

As for BHC, few reports have been received so far of any toxic effects on livestock, altho the U.S.D.A. has found that calves less than 2 months old are far more susceptible than older animals.

As for the chances of chlordane, which has a less objectionable odor, displacing BHC, as Steddom suggested, that's something that time and experience will settle. It's true that the Omaha Livestock Sanitary and Loss Prevention Board, in cooperation with other agencies, has treated some 2,000 hogs with BHC or chlordane, with each giving excellent results even when the mange had reached advanced stages.

But Cuff says that even tho a few of the newer chlorinated materials will eradicate hog mange with one thoro dose, it still is hard to beat the safe, fast-acting, low-cost BHC that is so effective in controlling live lice, louse eggs, mange, scab, and ticks on cattle, hogs, and sheep.

And so chemical progress rolls ahead at an almost breathless pace. Many wonderful discoveries are being made, even tho some questions are not yet completely answered. But growing ever clearer is the fact that mange and many other livestock pests are on their way out. **END**

New book honors sheep

ROMANCE and glamour have come to the sheep industry, long overshadowed by the more exciting and colorful cattle business, thru presentation of the book, *America's Sheep Trails*. The author is Colonel E. N. Wentworth, for more than a quarter-century director of the Armour and Company Livestock Bureau.

This 667-page book, rich with illustrations and personalities—many known by the author—starts with a brief discussion of the ovine species from the Stone Age to the colonization of America. The author then launches into an exhaustive, yet highly entertaining, discussion of how America has shaped the sheep industry, or, conversely, how the sheep industry has helped shape America.

Anyone disturbed over the present slump in sheep raising will be heartened to learn that sheepmen in earlier times had their ups and downs and then bounced back to prosperity. Tariff regulations, a burning issue today, has been a hot potato before.

Sheep surged westward over the great trails as a vanguard of civilization, later to reverse their direction when the Western states found they could produce sheep cheaper than Cornbelt farms but had to depend on Midwestern feedlots to finish them for market. There also was a gradual realization of the need for mutton as well as wool qualities in sheep, which was reflected in breeding changes of the Nineteenth Century.

> **There are three faithful friends—an old wife, an old dog, and ready money.**
> —*Benjamin Franklin*

One of the most captivating parts of the book is the discussion of the cattle-sheep wars of the late Nineteenth and early Twentieth Century. The public-lands question, now being aired publicly, also is discussed.

This book is available for $7 thru the Iowa State College Press, Ames, Iowa.

NEW IMPROVED *Features* make your milking EASIER, FASTER, GENTLER!

The Nearest Thing to Hand Milking!

For years the Hinman Low-Vacuum Jiffy Milker has been outstanding for faster milking in the gentler way. But now—the new JIFFY Master Milker with its many tested improvements — surpasses even the Jiffy Standard model. No other milker compares with it!

New INFLATION!

Notice the "three rubber fingers." In action they produce a gentle squeeze which starts at the top of the inflation and continues downward to the bottom. This gentle milking action closely follows that of the hand of a skillful hand-milker.

NEW PAIL!

Improved stainless steel pail is 18 gauge metal, polished inside and out. Pours more easily with *less tipping*. Has convenient handle for easier handling. Gunbarrel finish of pail, claws and inlets assures greater sanitation. Much easier to clean.

IMPROVED PULSATOR!

It has a positive lock-seal base. Locks tightly in position on the cover . . . easily removed by a short turn. Sure seal keeps out contaminated air.

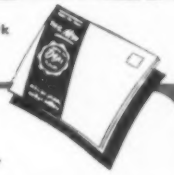
DRIER PIPELINE!

Newly designed cover and milk inlet assures drier pipeline. Recess in cover holds gasket securely in place.

These are only a few of the outstanding features on the new Hinman JIFFY Master. Like the famous JIFFY Standard Milker, it minimizes danger of teat erosion . . . encourages greater production by its more soothing action . . . and it's easier to keep clean.

HINMAN MILKING MACHINE CO. INC., ONEIDA, New York

● MAIL THIS COUPON NOW FOR FREE BOOKLET!
Read what the Hinman NEW Jiffy Master will do for you!



Hinman Milking Machine Co., Inc.
Box 360
Oneida, New York

Please send me your free booklet on the New Jiffy Master

Name.....

Address.....

County.....State.....

To the Person who is

DEAF

and is Tired of Straining to

HEAR

● Do you miss the precious things you should hear—music, the voices of loved ones, all the sounds that make up life?

Sounds which have been long lost—even low-voiced conversation, church sermons and business conferences, with many voices taking part, are all brought back with Beltone, the new type One-Unit Hearing Aid.

This tiny, one-unit device, which weighs only a few ounces, is all you wear. Gone, forever, are the inconveniences of old-fashioned hearing aids. No more heavy, clumsy separate battery packs. No dangling, unsightly battery wires. The Beltone reproduces faithfully the sounds you want to hear—the music and laughter in the voices of those you love, without discomfort or inconvenience.

FREE! Learn how much better and more clearly Beltone uncovers precious sounds you, perhaps, thought lost forever. Just mail coupon for valuable free booklet. No obligation.

MAIL COUPON FOR FREE BOOKLET

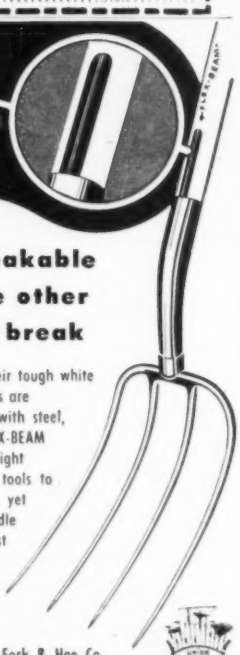
BELTONE HEARING AID CO., Dept. SF-1
1450 West 19 Street, Chicago 8, Illinois
Please send me, without cost or obligation, the new FREE booklet of interesting facts about DEAFNESS and HOW to OVERCOME IT.

Name.....

Address.....

Town.....*State*...

Demand UNION'S FLEX-BEAM reinforcement



unbreakable where other forks break

Because their tough white ash handles are reinforced with steel, UNION FLEX-BEAM forks are light and lively tools to work with, yet safely handle the heaviest load. No premium in price.

The Union Fork & Hoe Co.
Columbus 8, Ohio
Also makers of RAZOR BACK Shovels.

UNION FLEX-BEAM
HAY, GRAIN, MANURE FORKS

"Good farming is not enough"

[*From page 32*]

came the farm's name—Millbrook. And from that old mill, too, has come a modern, six-room tenant house which now stands across the little brook from the Spaces' own home. "We like to have our hired man, Howard Bundy, and his family live as good as we do in our home," said the Spaces.

FOUR years ago, Ralph, Zetta, and Ronald remodeled their own house. On the cover of this issue you can see—as the wing nearest to you—the sun porch they added to the gracious, old home. You can't see how they tore out interior partitions to make new, larger rooms. Nor can you see without reference to a "before" picture, the larger windows added for more light.

Based on plenty of electric current, automatic heat, running water, and insulation, the Spaces have built a program for comfortable living no matter what the weather. And they need no longer take refuge from the deep snows and cutting winds of their region behind tiny windows and thick walls.

That's the way the farming has gone, too—a studied effort to keep modern, employ laborsaving machinery, outfigure the markets, and yet not go overboard for things just because they're new.

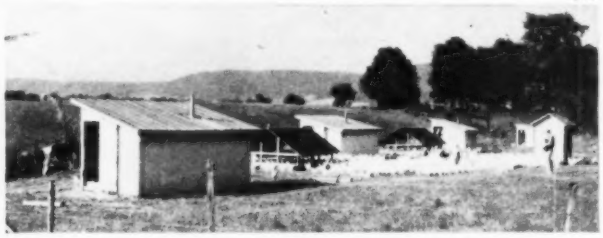
Dairying is a favorite subject with Ralph and Ronald. When I called at Millbrook last summer, they modestly described how, from their first registered Holstein heifer, they had built their herd of registered Holsteins thru careful selection and the use of top-notch herd sires.

For the 15 years that D.H.I.A. records have been kept, the herd has maintained an average production of more than 10,000 pounds of milk per cow and 360 pounds of butterfat. Now the figures read 12,000 pounds of milk and 443 pounds of butterfat—double the New York State production average.

RIGHT now Ralph has 32 milkers and 35 head of young stock—all bred on the farm either by the bulls he keeps or by artificial insemination. His cows freshen the year around; and even when they are on good pasture they get grain at milking time. "You don't want to underfeed them when you get $5 a hundred for shipping milk to New York City in June," he said with a smile.

Both Ralph and his father, Fred, before him produced fluid milk for the Big City market; but Ralph's grandfather, Thomas Space, in the middle 1800's marketed his product differently. He made butter on the farm in 100-pound firkins in the summer and 50-pound tubs in the winter, and sold it at a few cents a pound in near-

Suter



Pullet "recruits" for the 1,200-hen, White Leghorn laying flock here range over the Spaces' carefully-kept grasslands. There's much woodland, too

Marion Pease

The well-equipped, stepsaving kitchen you see Mrs. Space using here was installed in the old house some years ago. Equipment has been kept up to date

by Cortland. Dairying has come a long way since then, and people like the Spaces, farming and working as a family proud of their product, have helped the industry along.

Speaking of prices, the Spaces explained why they keep at least 1,200 White Leghorn laying hens. "This way we don't have all our eggs in one basket. We believe it means more security and stability in our farm business," Mrs. Space observed. Ralph added that "when chicken and egg prices are comparatively low, dairy prices are usually better. Then this situation sometimes is reversed." The interesting thing about the Space way of farming is that Ralph and Ronald are partners with Mrs. Space in the poultry business and she with them in dairying.

MORE than half of the rolling farm is in pasture or hay seeding; 90 acres altogether. And to get better pasture growth thru the season, Ralph clips and "doctors" (as he puts it) with plenty of lime and other fertilizers.

The three of us talked about the trend toward grass silage in the Northeast, and they commented that, altho they had been putting up all the hay the "old-fashioned way" in the mow, they intended to get some of their grass in the large tile silo within the next year or two.

Not only is grass silage good cattle feed but, in places like Dryden where you can't always make hay while the sun shines, it sometimes means the difference between a crop or no crop at all. Ralph, a conservative farmer, emphasized, tho, that he wasn't shifting 100 percent to grass silage.

Because of what they term "catchy weather," Ralph and son Ronald, age 17, argue that farmers in the area must have enough laborsaving equipment on hand and ready to run "so you don't lose out." Millbrook is well equipped with standard farm machinery—milkers, tractors, seeders—but such things as hay-dryers still are missing. The Spaces are waiting "until more of the 'bugs' are taken out." They watch progress reports and experiments like hawks.

MACHINERY has made a difference in the house, too. The five-cubic-foot "baby zero" freezer, for example. The Spaces like the frozen vegetables from their garden and the frozen pork and beef that is slaughtered on the farm. And then there's the gallon of ice cream that's always in the freezer. Their larger, generally jam-packed locker over in a Cortland community plant feeds the "baby zero" well. Mrs. Space says "there's no need to freeze chicken because there's always one we can cull."

They know the joy of busy hands not only in farming, but in community affairs. Ralph is active in farm and civic organizations. He has been president of the County Farm Home Bureau and 4-H Club Association and was one of the first directors of the Pioneer Artificial Breeding Association. He goes to Rotary luncheons in Ithaca nearly every Wednesday, and whenever possible we sit together. I like to get his viewpoint on current events and hear about what's going on out on the farm.

One noon our conversation turned to Ronald, "the mechanic on the farm," who had a ball game scheduled that night over in Dryden. His father said

[*Turn to page 112*

How to *Increase* Your Farm Income

even with a drop in food prices . . .

You can continue to make *your* farm pay as much as it did last year—yes, far more —*on the same acreage*. Fields with poor crops can also be corrected to produce high yields. How? Test your soil before buying fertilizers and lime. Unless you do, you're likely to use the wrong kinds and amounts, thereby missing out on peak production—and higher income!

Test Your Soil

Your soil is the backbone of your farm: all your buildings, implements and stock center around it. The better your soil—the more valuable your property. It's sound farming practice to test every field with a Sudbury Soil Test Kit. Know in advance what fertilizer formulas to use in each field and get top yield per acre at less cost!

Get Back $3 or More From Every Fertilizer Dollar

Test your soil and you can get back up to $3 or more from every dollar spent for fertilizer. Trials on seven fields in Illinois, for example, proved that every $14.42 spent on potash and phosphate paid off $43 in extra crop yield. In Tennessee, cost of producing wheat dropped from 69c a bushel to 32c a bushel, when fertilizer was used properly. In Maine, testing and fertilizing pastures increased milk production of a herd from 33,000 lbs. to 43,400 lbs.—$370 additional milk receipts per year, at a cost of $74 for fertilizer—$296 extra profit just by following soil tests!

Failure to Test Soil Costs Illinois Farmers $5,000,000

Last year, farmers in Illinois who neglected to test their soil before applying fertilizers lost $5,000,000 additional income that could have been theirs, according to agricultural authorities in that state. It is estimated that 60% of the farmers still guess as to the kinds and amounts of fertilizer their land needs and as a result, over 100,000 tons of limestone were put on land that didn't need it. One farmer saved $500 by using 125 tons of limestone instead of the 500 he guessed his soil needed—enough saved to buy all the phosphate that tests showed he needed on 65 acres.

Dealers Write for Special Offer

de LUXE SUDBURY Soil Test Kit

Easy to Do on Your Own Farm

No Knowledge of Chemistry Needed

Over 100,000 Now in Use!

Now you can test your own soil quickly and easily right on your own farm—no waiting for reports! A 10-minute test tells how much nitrogen, phosphate, potash, and lime to use on any field. You'll save the cost of your kit several times over, just in the fertilizer you buy this winter. You'll use your Sudbury Kit every season, year after year—and grow bigger crops.

Everything Needed for Hundreds of Tests

Exactly the same kit we furnish agricultural colleges, county agents, gov't. departments and progressive farmers everywhere. DeLuxe Professional Model . . . tests for nitrogen, phosphate, and potash. Also whether lime is needed (pH) and how much for farm crops, vegetables, fruits, trees, flowers, etc. (125 shown on charts). Complete equipment and solutions for hundreds of tests. Easy-to-follow instructions. Polished hardwood chest. Money-back guarantee. An income-producing piece of farm equipment for the low prewar price of $22.50

Plan now for top yields per acre at less cost—increase your income! Order your Sudbury Soil Test Kit today. C.O.D. plus postage . . . or send $22.50 and we will pay the postage.

Order Today

Sudbury Laboratory
Box 698, South Sudbury, Mass.

Send me ..... deLuxe Professional Sudbury Soil Test Kits at $22.50

☐ Enclosed is $..... Send order prepaid. ☐ Send C.O.D. plus postage.

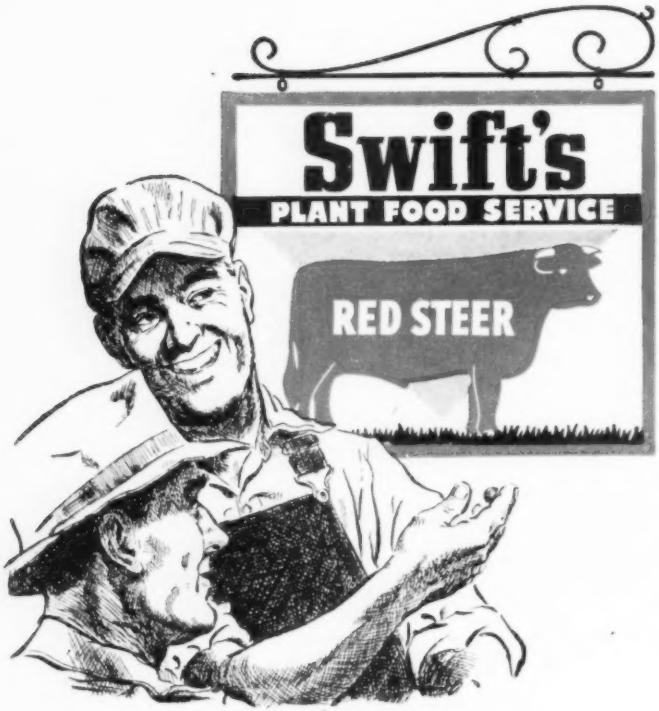
Name .....

St. or R. D. .....

P. O. ..... *State* .....

Sudbury Laboratory
Box 698, South Sudbury, Mass.

World's Largest Makers of Soil Test Kits



"The sign of the Red Steer... That says extra cash"

Choose the brand that puts you ahead... with better crops, higher yields, *extra cash!*

Successful farmers everywhere find that Red Steer gives bigger yields at lower growing cost. Swift's long experience in making top quality plant food makes Red Steer an outstanding buy.

You can count on Red Steer to handle easily. It works well in new, modern equipment or in old standbys.

Red Steer is so well blended that each teaspoonful in the bag furnishes equal nourishment.

Swift's Plant Food Research Laboratory keeps Red Steer formulas up to date with the new discoveries of soil scientists.

You can store Red Steer safely in a dry place for a long period. Sturdy bags protect its quality.

The demand for Red Steer is great! So see your friendly Authorized Swift Agent soon . . . and order your needs early.

SWIFT & COMPANY
Plant Food Division
Chicago 9, Illinois

Buy your SWIFT'S PLANT FOOD at the sign of the RED STEER!

Ask about *Blenn* & Brimm Swift's Specialized Crop Makers

"Good farming is not enough"

[*From page 111*]

Ronald hopes to go to nearby Cornell, the University Ralph himself attended, when he is graduated from high school in June. His ambition is to study agricultural and mechanical engineering. After this he wants to "go out on his own for a while and then come back to the farm."

When he does, he'll carry Millbrook along toward its *second* century. It was in 1941 that Millbrook and the Spaces were given recognition by the Farm Bureau in Tompkins County as a 100-year farm. The Farm Bureau in a number of New York counties has honored the state's 100-year farms.

The New York State Agricultural Society, itself an organization founded in 1832, also honors farmers and their families with the Order of Century Farmers.

The Century award was begun in 1935 by the late Dr. Carl E. Ladd, dean of agriculture at our Cornell University. The requirements were and are that a Century Farmer must own, operate, and reside on a farm which for a century or more has been continuously owned and operated by his family.

> **The surest way to hit a woman's heart is to take aim kneeling.**
>
> — *Douglas Jerrold*

We of the University's college of agriculture feel that the records of 100-year farms are worth keeping—officially, where they can't become lost or muddled. They invariably show that the farm men and women involved have found a way of living that's worth passing along. They have been financially secure. Few have been wealthy.

They have been quick to adopt better farming practices when those practices have been proved. They have insisted upon personal comfort and spiritual independence as their just reward for hard farm toil. And because they have insisted on comfort and upon modern equipment, they have inspired their children to become farmers, too.

Right down Ralph Space's farm road there are three 100-year farms in a row—Ralph's, the William McClintok place, and the Griswold-Downey farm. They all follow the same pattern of improvement thru the years. They all seem to confirm the Space family's argument that just good farming isn't enough. That good living has to come into the picture, too.

This isn't peculiar to New York State. Not by a long shot. When I read the article about the J. S. Woodburn family from Illinois in the December *Successful Farming*, I thought to myself that a Century Farm award might be a good idea in other states. The Woodburns are up to the fifth generation of farmers in the community. It won't be too long before the home place will qualify as a Century Farm itself.

Does your neighborhood have Century Farms or places that are approaching that? You might write me about them this winter as you have time. I'd like to know how many such farms there are beyond the East Coast area. **END**

Now—weedless grain and pastures

[*From page 39*]

¼ pound of the amine at the maximum.

If you're afraid to risk 2,4-D on your flax, you might want to use Sinox or Dow Selective. These are dinitro compounds, and safer to use on flax and the legumes. Their drawback is that as yet they cannot be applied at a low gallonage per acre.

Where most of the 2,4-D now is going on at the rate of 5 to 10 gallons of diluted spray per acre, these compounds mix up into a spray which goes on at the rate of at least 80 gallons to the acre.

A mere whiff of 2,4-D will rid your pastures of dandelion, marshelder, and the like. To get rid of thistles, ironweed, and bindweed will take more than one spraying. But you still can leave the scythe hanging in the tool shed.

Pasture grasses can stand a little heavier dose of 2,4-D than grains, so the rates start at ½ pound of ester, or ¾ to 1 pound of amine. Double the rate for hard-to-kill weeds.

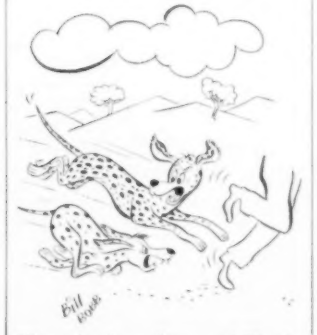
Cornbelt farmers are finding 2,4-D especially handy in helping kill or weaken perennial weeds in pastures just before renovation. This controls the weeds so they don't compete with the new seeding of a pasture.

How many sprayings it takes to do the job depends on how hard you've been after the weeds before. A patch of thistles, for instance, that has been mowed each year will yield to 2,4-D a lot more quickly than thistles which have had their own way for years.

One further tip, learned the hard way: No sprayer manufacturer can safely label his machine as one which will deliver any set gallonage of spray per acre. That depends on how fast you travel thru the field, and upon how many times you slow down to watch a passing airplane.

At today's low gallonage per acre, it doesn't take much of an error to risk damaging your crops. So use this idea: Fill your sprayer, and go out and spray a marked-off acre in the pasture, keeping track of the gear and throttle adjustment you use. Then measure how much spray you used. After that, adjust your speed or the strength of the spray to get the exact combination you need. END

SUCCESSFUL FARMING



"You take the mailman, and I'll take the milkman!"

EFFECTIVE! EASY! ECONOMICAL! SQUIBB "INSTANT-USE" PENICILLIN FOR MASTITIS*!

Here are the important reasons dairymen prefer Squibb "instant-use" penicillin—and save thousands of dollars with a high percentage of mastitis* recoveries:

EFFECTIVE!

Each "instant-use" tube of Penicillin Calcium Ointment contains 75,000 units of penicillin—an effective single dose. After injection, the ointment floats on the milk, and is dispersed throughout the udder. The penicillin is released slowly, thus prolonging effective action. 2 tubes are sufficient for most mastitis* cases.

EASY!

It's ready for *instant* use! Simply insert tip of tube into teat opening, squeeze out ointment. Since each tube contains 75,000 units of penicillin, you make *few injections*—and complete treatment of most mastitis* cases in a 12-hour period.

ECONOMICAL!

On a basis of units of penicillin, the Squibb "instant-use" tube costs you considerably less than other ready-to-use penicillins. No extra equipment need be purchased.

Stop the spread of mastitis* infections, costly udder damage, and milk check losses! Get Squibb "instant-use" penicillin *now*. Ask your druggist for it. *For accurate diagnosis of mastitis, call your veterinarian.*

*Due to *Streptococcus agalactiae*, the cause of the largest percentage of all mastitis cases.

WHAT DAIRYMEN SAY—

"This ointment is the best cure that I have been able to find."
—*Hope, N. J.*

"I have used Squibb's Penicillin in my herd of Holsteins and I think it is a good treatment for mastitis. On light cases, I use one tube of Squibb's Penicillin Ointment and that does the trick."
—*Omro, R. 3, Wis.*

"It sure is a sanitary way of treatment for mastitis, a lot better than a syringe."
—*Greenwood, Wis.*

"All in all—everyone likes the ease of application and percentage of efficiency."—*Drug Store, Bennington, Kans.*

FREE BREEDING CHART!

Handy—valuable for keeping breeding and freshening records. Write for yours—and for booklet on Mastitis Control. Address E. R. Squibb & Sons, *Veterinary and Animal Feeding Products Division,* Dept. SF-1, 745 Fifth Avenue, New York 22, N. Y.

SQUIBB—A NAME YOU CAN TRUST

Nothing beats currying WITH BRUSHES

FIGHT BUGS AND LICE THIS *EASY* WAY!

When it comes to battling profit robbing pests in your cattle, you know that NOTHING BEATS CURRYING WITH BRUSHES! Get AUTOMATIC pest-purging Cattle Curriers on the job with your herd and fight bugs, lice, grubs, easily, effectively, automatically! Cattle just naturally GO for these curriers. Try one—convince yourself. See your dealer or WRITE DIRECT at once to the factory! "Grubby, lousy cattle never top the market".

10 DAY TRIAL OFFER

See your dealer or write direct (Dept. SF-5)

AUTOMATIC HOG OILERS, TOO!

Big pigs, little pigs, ALL PIGS find soothing, effective relief from medicate oil applied by Automatic's famous Hog Oilers with Patented Belly Rubber. . . . Double or single units. Try Automatic Hog Oilers in YOUR pens. Convince yourself.

AUTOMATIC EQUIPMENT MFG. CO.
Pender, Nebr., U S A

42 ROSES SHRUBS AND EVERGREENS Only $2.95

ENOUGH TO LANDSCAPE YOUR HOME!

Loads of beauty, year after year . . . the biggest bargain in flowerdom! For just $2.95 you get . . . 4 blooming-size 2 yr. Roses—red, pink, yellow, white; 9 healthy, 2-foot flowering shrubs (2 Red Snowberry—2 Red Indian Currants—1 Red Spirea—2 Althea—1 Pink Deutzia—1 Forsythia); 2 Hall's Honeysuckle Vines, blooming size; 1 Red Maple shade tree—2-foot size; 1 2-foot Red Cedar Evergreen; 25 2-foot Amoor River Privet Hedge plants—enough to set about 75 feet of hedge.

42 PLANTS IN ALL . . . ALL HEALTHY, HEAVY STOCK . . . ORDER YOURS NOW!

INTRODUCTORY OFFER
$12.19 VALUE ONLY $2.95

This is an introductory offer—the regular catalog price of these 42 fine plants is $12.19 . . . but they're yours for just $2.95 if you order from this advertisement.

EXTRA-TULIP TREE

ORDER NOW and you receive at no extra cost a big 2-ft. tulip tree—a fascinating tree that is covered with tulip-shaped blooms in spring!

SEND NO MONEY — ORDER BY MAIL

We ship C.O.D. — pay postman just $2.95 plus postal charges. We will ship at proper planting time for your locality.

SATISFACTION GUARANTEED OR YOUR MONEY BACK

NAUGHTON FARMS, INC. Dept. 829M Waxahachie, Texas

BEFORE YOU BUY -SMALL- ANY TRACTOR-

SEE THE POWERFUL 5-HP GRAVELY—THE WORLD'S FINEST YET MOST MODERATELY PRICED GARDEN TRACTOR . . . COMPLETE LINE OF EXCLUSIVELY DESIGNED POWER TOOLS FOR EVERY GARDEN, LAWN AND FIELD JOB.

WRITE FOR FREE CATALOG

GRAVELY TRACTOR
FIELD-TESTED FOR 27 YEARS

GRAVELY MOTOR PLOW & CULTIVATOR CO.
BOX 130 DUNBAR, W. VA.

NEW!

HYBRID White Hulless POPCORN

29% Greater Popping Volume
16% GREATER YIELD
—in U. of Minn. tests! Much more tender and flavorful than Jap Hulless. Here's the last word in popcorn quality—it's snow-white, hulless, sure to pop. Grow your own—a big money-maker for commercial growers.

Many more new items in colorful FREE catalog. A post card brings it.

FREE SEED CATALOG

FARMER SEED & NURSERY CO.
12 No. 7th St. Faribault, Minn.

Earliest Tomato

JUNG'S WAYAHEAD has big red fruits ripe as early as July 4th. Regular price 15c per pkt. but to introduce Jung's Quality Seeds we will send you a trial pkt. of this Tomato, Tenderete Carrot, All Cream Lettuce, Earliest Radishes and a large pkt. of

SUMMER GLORY FLOWERS
that will bloom from early summer until hard frosts, all for 10c; in Canada 25c.

FREE Our beautiful full color catalog of bargains in Seeds, Plants, Shrubs, Hybrid Corn and Certified Seed Grain. Coupon for rare Premiums in each catalog.

J. W. JUNG SEED CO., Dept. 14, Randolph, Wis.

GERANIUM Plants From Seed

Finest Double and Semi-Double varieties, all shades. Described in Big New Catalog. Write today. Send 10c in coin for this 50c Packet (10 seeds) and catalog **FREE**

CONDON BROS. SEEDSMEN Box 251 Rockford, Illinois

MAKE QUICK FRUIT PROFITS!

Bearing Age Plants YIELD IN 60 DAYS

Have plenty of fruit to eat and sell this year. NEW STREAMLINER Everbearing Strawberry; NEW MORTGAGE-LIFTER early Black Raspberry; Apple, Peach, Plum, Pear, Cherry and Apricot Trees. DWARF FRUIT TREES. Bearing size. State Inspected. Evergreens, Roses, Shrubs, Gladiolus. 50% DISCOUNT on EARLY ORDERS. Write for "Garden Success", Valuable, big Color Catalog FREE.

GET FREE Color Catalog

South Michigan Nursery, Box 261, New Buffalo, Mich.

VALUABLE INFORMATION ABOUT FRUIT TREES

56th ANNUAL CATALOG FREE

PEACH—APPLE—CHERRY

Best varieties; lowest prices; quality **guaranteed.** Also berry plants, farm and garden seeds, shade trees, shrubs. Our **56th Year** of serving successful growers and gardeners. Big catalog **FREE.** Write today.

ALLEN'S NURSERIES & SEED HOUSE
Box 18C Geneva, Ohio

News

Sweet clover hikes corn yields

SOME Ohio farmers—in spite of damage to their soils—use a two-year rotation of corn and oats. It has been proved that those men can reduce fertility losses and improve their corn yields by seeding sweet clover in the oats, so the clover is plowed down ahead of the corn crop planted the next year.

Corn yields were raised 16.1 bushels per acre, and oat yields of both grain and straw were improved over a period of six years. The tests also showed that corn yields were considerably better when the sweet clover was plowed down in the fall, than if plowed at any time in the spring preceding corn planting.

Early-spring plowing of the sweet clover residues is better than later preparation of the seedbed.—*A. J. Patch.*

More wilt-proof tomato varieties?

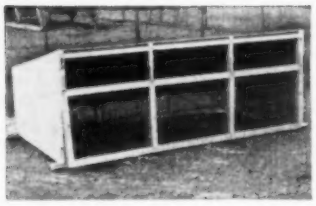
RESEARCH workers in the United States Department of Agriculture now report another step forward in the search to find a way to make tomatoes immune to wilt. For 25 years, chemists have wondered why some tomato plants were immune to wilt which killed others.

Now they have discovered that wilt-resistant tomato plants manufacture a chemical compound which halts invading wilt organisms. This new compound, called "tomatine," now can be prepared in pure form. It will be used to make a detailed study of how the plant uses it to keep off wilt attacks. This should pave the way for the production of more wilt-resistant varieties of tomatoes.

Today's wilt-resistant tomatoes are the result of a plant-breeding project started a quarter of a century ago, when the disease threatened to wipe out the tomato-growing industry in the Southeast. A world-wide search for a tomato plant having high natural immunity to wilt produced just one—the "Red Currant" tomato growing wild in South America.

Because of its very small fruit, this variety could not be introduced as a replacement for the varieties being grown in North America. By crossing this wild, wilt-resistant variety with cultivated, wilt-susceptible varieties, however, the plant breeders succeeded in developing a wilt-resistant variety bearing fruit of good commercial quality. END

Tomatoes show varying immunity to wilt



Year 'round shelter for geese

THIS pen for domestic geese, built 4'x8', is inexpensive, can be made in a few hours, and is worth several times the investment in material and labor. So says John L. Peyton, who keeps a flock of geese in St. Louis County, Minnesota.

While, as Peyton points out, large numbers of geese on any one farm are rare, many farmers have a dozen or so each. This shelter is ideal under such circumstances, because it accommodates 15 to 20 geese, and it is useful any time of year. If geese are kept over for breeding, it is a good place to winter them. It serves as shelter in spring and fall, too.

The frame is made of 78 lineal feet of 2x2's, divided as follows: 2 pieces, each 9' long; 2 each 8' long; six 4' long; four 3'; and four 2'. The roof is one piece of 4'x8' marine plywood, a standard size which does not have to be cut.

The back is plywood, 2'x8'. The ends, 3' high in front and 2' at the rear, both are sawed out of one piece of 4'x8' plywood. The door in front, hinged and hooked, 2' high and 8' long, covered with wire, is framed in 1"x2" material.

Thus, the shelter is light enough to be carried by two men. Several built on the same plan and covered with a coat of aluminum paint are giving good service at the Minnesota Agricultural Experiment Station.—*Walter J. Hunt.*

Two buildings in one

RUDY PHILLIP, Medina, Ohio, combined a concrete-block first-story (39'4"x40'4") with a standard Quonset, measuring 40'x41'. The result was the fine-looking structure shown in the photograph above.

He went up 10' on the concrete, masonry side walls, then laid the floor for the mow, and then firmly bolted the Quonset to the bottom assembly. The difference in measurement between the two sections gives adequate space for spouting and lookout-type eaves.—*O. C. Duke.*

YOU WON'T BELIEVE IT UNTIL YOU SEE ONE!

JUST WHAT YOU'VE BEEN WAITING FOR . . .

There's no other machine like it . . . It's the new, entirely different grass seeding pulverizer and packer . . . the only machine that is two seeders in one plus a soil pulverizer. See how it saves you seed (5 to 8 lbs. per acre), hours of hard labor (just once over the field and you have a mulched seed bed without lumps or hard clods) . . . and all these add up to soon paying its initial cost. But, best of all, you will have a good catch - a sure stand . . . for many seasons, because it's made to last . . . to "take" today's high tractor speeds.

Just think! With the model illustrated you can seed legume and brome at the same time . . . truly "two seeders-in-one". And, there's the single box model that seeds legume only . . . we'll gladly tell you about it, too.

WRITE TODAY.

We can't begin to tell you the whole story with just one picture - but we can send you FREE a fully colored illustrated folder with full details - so write for it and the name of your nearest dealer where you can see the Brillion Sure Stand.

BRILLION IRON WORKS, INC. Box 211 BRILLION • WISCONSIN

COUGHS DUE TO COLDS

among horses, mules, cattle, sheep and dogs call for treatment with SPOHN'S COMPOUND. A stimulating expectorant. Acts on throat and bronchial tubes to hasten relief. Used by world-famous horsemen for 55 years. At drug stores or direct, postage paid—70c and $1.40. Spohn Medical Co., Goshen, Ind.

SPOHN'S COMPOUND
FOR COUGHS DUE TO COLDS

Big, Sweet and Juicy, Home-Garden
BLUEBERRIES
Beautiful blooms too; superior varieties. FREE CATALOG
Also fruit trees and plants, shrubs, roses.
STAHELIN'S NURSERY, Box J2, Bridgman, Michigan

HARDY ROSES

Exquisite Sub-Zero Hybrids, bred for northern gardens. Require less care. Add colorful charm to your home.
Write for FREE '49 Color Catalog.
Wide choice of flowers and fruits
ANDREWS NURSERY
1110 ORCHARD CREST • FARIBAULT, MINN.

MEN OVER 50 MAKE A FORTUNE
NO INVESTMENT

Good salesmen in our organization have made fortunes. Our best men earn $10,000 in a year and more . . . and many of them are over 50. Here is a field where mature, experienced, ambitious salesmen can really prosper. It's a chance of a lifetime to make the kind of earnings you've always wanted . . . and make them easily and continuously.

EXCEPTIONAL EARNINGS UP TO $5,000 — $10,000 — and more

The right men can enjoy long-range security with us. We pay earnings in advance and require no investment. If you are over 50 write us a letter and get full information. Vice President, Dept. DD, Box 678, Dayton 1, Ohio.

MORE MILK
LESS WORK
with GLOBE
"Rhythm" Milking

U.S. & Foreign Pat. Pend.

You can get *more* Milk . . . easier, faster, better with Globe's amazing "Rhythm" Milking. Operates like a calf sucks . . . alternately Milks and Massages one teat at a time in 1-2-3-4 Rotation. Cows like it. Hence, *more* Milk.

12 BIG ADVANTAGES

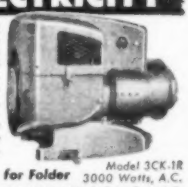
Globe "Grand Champion" Milker requires *No Pipe Lines or Barn Installation.* Just Plug in and Milk. Power unit is right on Pail. *Hand portable.* Easy to clean. Many other plus features. Investigate NOW. Mail coupon for free Catalog TODAY.

GLOBE MILKER — MAIL COUPON TODAY

GLOBE MILKER CO.
E. First and Court, Des Moines, Iowa.
Please send free catalog showing what Globe "Rhythm" Milking can do for me.
Name
Town R. R.
State

EMERGENCY ELECTRICITY

PREVENT LOSSES FROM POWER FAILURE with a low-cost Onan Standby Electric Plant. Equipped with line transfer control it starts automatically when power fails, stops when power is restored. Many models for standby or regular use . . 350 to 35,000 watts.



Model 3CK-1R 3000 Watts, A.C.

Onan PRODUCTS

Write for Folder

D.W. ONAN & SONS INC.
2783 Royalston Ave., Minneapolis 5, Minn.

CHIPPEWA

HENRI SAYS:

"LIKE THE DEER RIFLE, THIS REVERSIBLE

PARKA

SHE HAS 'EYE'-POWER!"

● But the *stock* reason for wearing this Bergen Reversible Parka is its comfortable full-cut and the *double-barreled* protection against winter winds afforded by its two layers—100% wool in plain red, red and black or Chippewa plaids on one side . . . water and wind repellent gabardine on the other.

Created in the
GREAT NORTHWOODS

Accepted by
OUTDOORSMEN EVERYWHERE

FROM RAW WOOL TO FINISHED GARMENTS UNDER ONE ROOF

SEE YOUR LOCAL DEALER

Chippewa Falls Woolen Mill Co.
Chippewa Falls, Wis.

WOOLENS

SHIRTS • STAGS
PARKAS • COATS • PANTS
In a Wide Variety of Styles, Designs and Colors

Big 7x11 Photo Album FREE

Just send this ad and 10c to pay mailing. Beautiful 4-color covers, black leaves hold 250 snaps; if Magic Mount style, no glue or paper corners needed. It's fun to Magic Mount snapshots. Check preference for cover design:
DeLuxe Crown Album, Special Baby Album.
If not checked, we send De Luxe Crown.
CROWN STUDIOS
St. Louis 14, Mo., U. S. A.

WANTED
MAN WITH CAR

No Time Like Now to Get In *McNess Business*

It's no trick to make good money when you use your car as a McNess "Store on Wheels." Farmers buy everything they can from McNess Men because McNess Products are tops in quality, represent extra values. Attractive business-getting prices and premiums; also money-saving deals to customers make selling McNess daily necessities a snap.

Use Your CAR to Raise Your PAY

We Supply Capital—Start Now!

There's no better work anywhere. Pays well, permanent, need no experience to start, and we supply capital to help you get started quick. You begin making money first day. Write at once for McNess Dealer Book. It's FREE. Tells all—no obligation. (F)

THE McNESS CO., 768 Adams St., Freeport, Ill.

Laughing at Life

THE bachelor roomer called on his girl every night. Finally, the landlady asked him why he didn't marry her. He'd evidently given it a lot of thought, because he replied instantly:

"Why, if I married her, where would I go every night? I'd be stuck at home!"

•

Many years ago, an Indian and two other men were riding across the Idaho lava beds. They'd been in the saddle since early morning, and their talk got around to the big dinner they expected to eat when they got to town. When the Indian was asked if he were hungry, however, his answer was "No."

They soon reached their destination and ordered steaks with all the trimmings. The Indian wolfed down everything in sight. One of his companions remarked to the redskin that only an hour ago he'd said he wasn't hungry.

"No use be hungry back there," the Indian replied, "—no food."

•

The popular novelist, Kathleen Norris, numbers herself among the vast army of travelers who consider a passport photograph the most depressing of travel aids.

Entering the harbor of Rio de Janeiro during a South American tour, Mrs. Norris looked at her picture and said:

"If the port authorities don't recognize me from this atrocious picture, I can't go ashore, but if they do—if they do—I'll jump overboard!"

The Error of Our Ways

(Calls From the News Columns)

Lilliputians?

Informal portrait night is limited by this rule: Snapshots must be of a person not larger than 8x10 inches.—*Dalton (Georgia) Citizen.*

Frank Statement

The Oak Ridge atomic plant sponsors training in the unclear sciences.—*Syracuse (New York) Post Standard.*

Shady Business

Wanted: To contact low firm in Dallas which collects private estates.—*Dallas (Texas) Morning News.*

Friends?

Couple breaking up home; friends helping.—*St. Paul (Minnesota) Docket.*

Itchy Performance Ahead

The "Hollywood on Lice" revue opens at the Ryman Auditorium at 8:15 tonight.—*Nashville (Tennessee) Tennessean.*

Flourishing Grapevine

For sale: Leaky Telephone Company, only $24,000—less than two times the annual income.—*Houston (Texas) Post.*

Snooze in Store for Audience

Before playing in New York, the production will be tired out in Long Branch.—*Variety magazine.*

Who's to Watch Whom?

Night watchman for hire; will take anything.—*All Pets Magazine.*

SUCCESSFUL FARMING

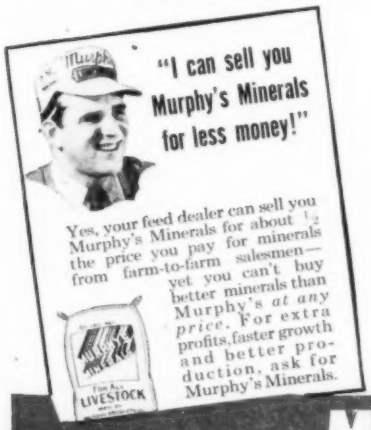
"Junior's bathed."

Proteins · **Minerals** · **Vitamins**—Without enough of these essential substances in your rations, feed is wasted, serious breakdowns occur, and your hog profits are cut way down. NOW it is easy to give your growing pigs the *right* kind and the *right* amount of these essential substances, all from one bag, with . . .

MURPHY'S CUT-COST CONCENTRATE

Don't Waste Grain. Murphy's Cut-Cost Concentrate balances up farm feeds so effectively that you can put 100 lbs. of gain on hogs with as little as 5½ to 6 bushels of corn. Only a small amount of Cut-Cost Concentrate is needed but it does a big job in cutting down feeding costs.

Avoid Breakdowns. Puny pigs that don't thrive and grow are "profit robbers." If your pigs fail to get enough protein, mineral and vitamin substances, serious breakdowns and disorders may result. But when you properly fortify their ration with Cut-Cost Concentrate, you can be sure your pigs are getting the feed materials they need to side-step profit-robbing breakdowns and to maintain rugged health.



Cut Feed Costs — Increase Profits

A ration that is only *slightly* deficient can waste as much as half of your pork profits. Thousands of farmers have found that they can raise better pigs and cut down feed costs enough to actually *double* their profits when they switch from old-time wasteful feeding methods to the modern, profit-proved Murphy way. So why waste high priced feed and run the risk of costly feed lot troubles?

See your Murphy Dealer—or, write for FREE information on how to feed livestock for *more profits* the farm-proved Murphy way. Write today to:

Murphy Products Co., Dept. A-19, Burlington, Wis.

MURPHY'S CONCENTRATES AND MINERALS

(Advertisement)

Forecast!

Continued sound market seen for the dairyman

The immediate and future demand for milk and dairy products exceeds the indicated supply. Unless something is done, milk and dairy products will continue to be short. Sharply higher birth rates and longer life span have added to our population and, at the same time, there has been a continuing decrease in the cow population on farms.

The solution lies in immediate action. Farmers can profitably increase their herds to the capacity for which they have roughage; they can raise more good heifer calves; they can raise feed for more dairy production to meet the demands of the future.

Dairy farming is a *proven* good business. It offers a substantial profit to the farmer *now* and, as a long-range source of farm income, is even more attractive. Prices received by farmers for milk in comparison with other major farm commodities over a period of many years show that the dairy cow is the steadiest year-round source of farm income.

As population continues to increase and the standard of living continues to rise, demand will grow steadily, assuring a substantially permanent and productive market for the dairy farmer.

Yours for a prosperous future in Dairy Farming, International Association of Ice Cream Manufacturers, Barr Building, Washington, D. C.

25 EVERGREENS 3 Favorite varieties 10 Colorado Blue, 10 Norway Spruce, 5 Ponderosa Pine. 2 year plants, 4-6 inches. All 25 only $1.00 postpaid. ORDER THEM NOW. CATALOG FREE. POST PAID $1

BERRY SEED CO. Box 4119 CLARINDA, IOWA

MASTITIS

Where mastitis is caused by *streptococcus agalactiae*—as about 90% is—you can check it by doing two things. First—improve herd management: separate healthy from infected cows, consult veterinarian regularly. Second—use penicillin on the *slightest* suspicion of garget.

The most effective treatment...?

Penicillin, experts say. What form? PENSTIX . . . the new and improved PENSTIX. Now made slimmer and smaller so you can *slide* them into the teat canal...*effortlessly*.

PENSTIX*—fast, potent

Dissolve in the milk in the udder in minutes. Contain long-lasting Procaine Penicillin G (25,000 units)—sufficient to maintain anti-bacterial activity from milking to milking. No refrigeration necessary. Get PENSTIX at your druggist or animal health products center. For new *free* book about mastitis, write . . . Wyeth Incorporated, Animal Products Div., Dept. F-1, Philadelphia 3, Pa.

*Trademark

Advertisement

Veterinary

New test for locating Bang's

ALL AGENCIES charged with control of cattle brucellosis are much interested in a new diagnostic measure which is called the ring test.

Main value of this new test, which originated in Denmark, is to spot centers of infection in communities where most of the dairy herds have been freed from the disease by blood-testing and calf-vaccinating. It is based on the knowledge that milk from a cow which contains "agglutinating substances" will show a positive color reaction even when mixed with the milk of 9 or 10 other cows.

A sample of the milk from each herd is taken from the incoming can at the creamery. A few drops of the testing fluid, called antigen, is added to each test-tube sample of milk, and the mixture then is placed in the incubator for about an hour. If the milk contains any Bang's disease agglutinins, a blue color shows in the ring of cream at the top of the fluid. Whole cream can be tested by a slight modification of the method.

Detecting brucellosis reactions with the ring test provides valuable information for owners of supposedly clean herds. The test serves as a warning to initiate blood tests to detect the affected cows. Some cows which have ceased to react to the regular blood test, but which are carriers of the brucella germs, will react to the ring test.

In Minnesota, the ring test has been run on milk samples from some 20,000 herds in 18 brucellosis-clean or near-clean counties with an end efficiency of 82 percent in locating infected herds.

Feeder cattle may be wormy

ORDINARILY, one does not associate worm damage with feeder cattle, for these animals usually come from the wide-open spaces—and in the old days you couldn't find a parasite in a carload.

In the past decade or two, many factors have entered the Western picture—winterfeeding, community-sale mixing, overgrazing, and so forth—and the end result is that the ever wily internal parasite has more than a toe hold.

Let's not get the idea that all cattle coming from the West are wormy. Most loads are clean. But, if good feeding does not bring proper gains, if some of the steers have chronic diarrhea, or if their eyeballs are too white, you'd better have your local veterinarian check up and recheck with a microscopic examination of a dung sample.

Treatment depends on the type of internal worms responsible.

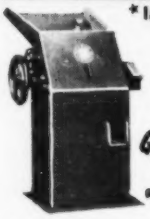
New drug gets fowl cholera

AN INCREASING number of reliable reports, both from the field and the laboratory, indicate that the new sulfa drug called sulfaquinoxaline outstrips all other remedies for curbing fowl-cholera losses.

While very high in price, the drug fortunately is effective in high dilutions—1 part in 2,000 or 4,000 in sick flocks and 1 part in 10,000 when used as preventive in exposed flocks.

An especially interesting report states that losses from fowl cholera abruptly ceased in a large turkey flock after giving

FEED *Fresh* ROLLED GRAIN



* IMPROVE DIGESTIBILITY
* ELIMINATE WASTE
* CUT FEED COST

Farnam FARM-SIZE GRAIN ROLLER ROLLS CRACKS CRUSHES ALL SMALL GRAINS

AVOIDS DUSTING!

Cut your feed bill up to 50%! Improve feeding results! Every bushel of rolled feed produces more growth, more meat, more milk. Animals prefer coarser, dust-free, easily digested rolled grains, and eat it more readily. Rolling eliminates waste and digestive disorders due to dusting . . . requires less power, less labor, less time. With a low cost Farnam "Farm Size" Grain Roller you can roll grain as you need it and feed it fresh rolled, full of nutritive value.

10-DAY *Free Trial Offer!*

Try the Farnam "Farm Size" Grain Roller at our risk! Write for descriptive literature and details of our 10 DAY "Free Trial" offer.

FARNAM *Equipment Co.* DEPT. 647 OMAHA 3, NEBR.

FREE! NEW BOOK ON RAISING CHICKS

This new 1949 Ful-O-Pep Book, just off the press, gives you many helpful brooding hints on the care and feeding of baby chicks . . . points out things you can do to increase chick livability and growth. You'll find, too, how you may save up to 30% on feed cost by raising *big profitable pullets* on the famous Ful-O-Pep Restricted Feeding Plan . . . the program followed by many of the nation's most successful poultrymen. Send for your free copy. Write today to . . .

THE QUAKER OATS COMPANY, Dept. A-19, CHICAGO 4, ILL.

GOOD FARMING PAYS New Patent Greatly Improves Work

New

WESTERN SPROCKET PACKER & MULCHER

It pulverizes, mulches and firms soil deep as plowed BETTER THAN EVER BEFORE. Saves time, labor and horse-power preparing ideal seedbed. Leaves surface mulch without grooves, which greatly helps to prevent washing. This seedbed conserves moisture, saves seed because more of the seeds grow, and helps to increase yields of all crops. Great also for rolling in clover and grass seed and breaking crust on winter wheat in spring. Find out why it does the work so much better, easier and faster. Be sure you get the genuine WESTERN. Write for Catalog and freight-paid prices direct to you.

Western Land Roller Co., Box 814, Hastings, Nebr.

***Martins* for FASTER, BETTER DITCHING!**

Use MARTINS, save time, labor, costs!

New Two-Way Flat-Bottom Ditcher

Model 78, V-Type, Terracer, Ditcher, Grader

Reversible. Throws dirt either way. Famous for terracing, ditching, recutting.

Send for descriptive literature

OWENSBORO DITCHER & GRADER CO., Inc. Box 19 Owensboro, Kentucky

Older folks say it's common sense...

ALL-VEGETABLE LAXATIVE

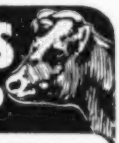
NATURE'S REMEDY (NR) TABLETS —A purely vegetable laxative to relieve constipation without the usual griping, sickening, perturbing sensations, and does not cause a rash. Try NR—you will see the difference. Uncoated or candy coated—their action is dependable, thorough, yet gentle as millions of NR's have proved. Get a 25c box and use as directed.

Nature's Remedy
NR TO-NIGHT TOMORROW ALRIGHT

FUSSY STOMACH? RELIEF FOR ACID INDIGESTION, GAS AND HEARTBURN

FOR THE TUMMY!

SPOHN'S UDDER-AID



Kills Germs on Contact

Injured, cut or chapped teats and udders should have prompt, antiseptic treatment. Apply Spohn's UDDER-AID. Helps prevent infection. Aids prompt healing. Ideal for massaging congested udders. 70c at drug stores or sent direct. Spohn Medical Co., Goshen, Indiana.

ASK FOR IT BY NAME

SPOHN'S

FALSE TEETH
KLUTCH holds them tighter

KLUTCH forms a comfort cushion; holds dental plates so much firmer and snugger that one can eat and talk with greater comfort and security; in many cases almost **as well as with natural teeth.** Klutch lessens the constant fear of a dropping, rocking, chafing plate. 25c and 50c at druggists. . . . If your druggist hasn't it, **don't waste money on substitutes,** but send us 10c and we will mail you a generous trial box. © I. P. INC.

KLUTCH CO., Box 4936-A, ELMIRA, N. Y.

URGENTLY WANTED! Mature, personable men who like to deal with people now needed for fascinating occupation. Income possibilities exceptional! 150 of our men made $400 to $3,000 in one month—many just beginners. **Read Actual Certified Earnings.** Bill Tredway, $6,943.67 (6 mos.); W. F. Berry, $18,387.83 (1 yr.); C. A. Solberg, $66,345.06 (5 yrs.). Incomes listed not average. They are top ones for our product U.S. Pat. No. 2,392,813 in great demand. Results immediate—future market unlimited. Contact high-caliber persons—farmers, ranch owners, etc. Openings available in fixed territories. Highest quality product sold on long-term credit, no down payment. Earnings paid immediately. No collections. We make deliveries. **Write today.**

PRESIDENT, P. O. Box 711, Dept. SF, Ft. Worth 1, Tex.

sulfaquinoxaline in the drinking water at either the 1:2,000 or the 1:4,000 level.

Prevention still is the prime watchword in the handling of fowl cholera and all other avian diseases. However, it is comforting to know that in an emergency nearly specific results may be obtained with this efficient new drug.

Cows losing calves?

THE OTHER DAY we talked with a man who was very angry, indeed. His vaccinated heifers were "slinking their calves." In no uncertain terms he denounced calfhood vaccination as no good and a fraud which was designed entirely for the benefit of veterinarians.

It was not until later when blood testing showed the animals to be negative that he cooled off a bit and began to suspect that something other than Bang's disease was responsible for his bad luck. A detailed herd survey revealed that the trouble was being caused by vibrionic abortion, doubtlessly imported with a purchased cow.

As time goes on, we run into this disease more and more often, quite generally in herds that are known to be free of Bang's disease. We suspect that it is quite widely spread, even in herds where Bang's disease is supposed to be causing the trouble.

At any rate, it is unwise to blame an epidemic of abortions on "fighting at the tank," "slipping on the ice," or other accidents unless vibrionic infection has been eliminated as a cause.

Dairymen should watch Q-Fever

SO-CALLED Q-Fever is one of the new human diseases which may have direct interest for dairy farmers.

Several outbreaks of this grippe-like disease in the California area appeared to be associated with dairy cattle, either by contact or thru the drinking of milk. Quoting from a report which was given at a recent national veterinary meeting, we note that:

"Cattle, particularly milk cows, are the only definitely known source of human infection, but the means by which the infectious agent is transferred is uncertain. Infected tick feces and contact with the tissues of slaughtered animals have been suspected. Milk from infected cows has been found infectious, and it, too, is now under suspicion. Once introduced, the disease appears to spread within the dairy herds. How cattle acquire the disease from nature is not yet understood. Ticks are a possible source."

Still lots of needed information is necessary before we understand all angles of this Q-Fever problem. So far as we know, dairy cows or other cattle show no recognizable symptoms of sickness, even tho they spread the infective factor to human beings exposed to it.

Cause of the disease is a form of germ life called rickettsia. These are sort of intermediate forms between true germs and filterable viruses.

Helpful reminders

WHENEVER YOU can step into a hog house and see an excessive amount of frost clinging to the underside of the roof, it means that ventilation is faulty.

•

THE CONDITION commonly known as winter pinkeye in cattle usually is associated with Vitamin-A deficiency and failure to feed a sufficient amount of green-colored hay. END

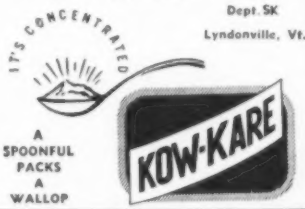
An ounce of PREVENTION at DANGER MONTH

FRESHENING is a CRITICAL TIME

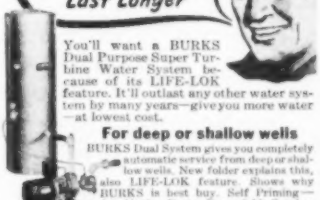
The three or four weeks before calving is the cow's period of preparation for her next lactation performance. You can promote trouble-free freshening and the necessary vigor-reserve to insure efficient feed-to-milk conversion by supplying the Drugs, Vitamin D, Iron, Iodine, Cobalt, Calcium and Digestants that make up the concentrated KOW-KARE formula. With lower grain costs let KOW-KARE help you to feed more heavy grain-feeds safely for a big season of milk profits. Besides regular two sizes, there's a new 50 lb. bulk drum for large-herd users, at important saving.

FREE COW BOOK — Send for your copy of "Care and Feeding of Dairy Animals," written by a nationally-recognized dairy nutritionist. Includes guidance on grain mixtures best fitted to roughage of each section.

DAIRY ASSOCIATION CO., Inc.
Dept. SK
Lyndonville, Vt.



BURKS WATER SYSTEMS *Last Longer*

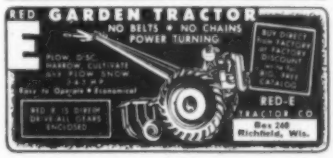


You'll want a BURKS Dual Purpose Super Turbine Water System because of its LIFE-LOK feature. It'll outlast any other water system by many years—give you more water—at lowest cost.

For deep or shallow wells

BURKS Dual System gives you completely automatic service from deep or shallow wells. New folder explains this, also LIFE-LOK feature. Shows why BURKS is best buy. Self Priming—One Moving Part—Dependable Service. Write for literature—prices.

DECATUR PUMP CO., 30 Elk St., DECATUR 70, ILL.



SAVE MONEY ON
GRASS SEED

FREE 15¢ PKT. EXTRA FINE TOMATO
To every farmer who asks for Catalog and for Free Farm Seed Samples, we will send this wonderful new tomato to try FREE.

BUY DIRECT at wholesale prices. World's largest seed stocks to choose from. Finest quality, hardest origins. Newest crops in Certified seeds. Berry's guarantee—"Quality considered, you can't equal our seed values anywhere." Don't delay. Berry's make special low prices for early orders. Write today for our big
NEW 1949 CATALOG, FREE
Markets advancing. ALFALFA and other seed crops short. Save money by acting now. New varieties available to early buyers are Alta Fescue, Rockfort Trefoil Certified Clinton 50 Oats, Hawkeye Soy Beans, "525" Hybrid Corn, etc. Nursery stock also garden seed.

WESTERN ALFALFA $26.85 BU.
99½% PURE 90% GERMINATION
RANGER ALFALFA
New wilt-resistant Variety. Certified. Limited offering.
GRIMM ALFALFA $27.60 BU.

RED CLOVER $24.95 BU.
High Quality. Contains some other crop seed, for strength. SAMPLE FREE.

SCARIFIED SWEET CLOVER $11.25 BU.

SEVEN WONDER CLOVER
World Brand Quality
$17.85 BU.

FREE SAMPLES
See for yourself. Check quality, price and savings. Every farmer should have this valuable seed guide, and its many money saving opportunities. Write at once for free samples of all farm seeds you need. Also for our big new Free Catalog. State kind and quantity of seed desired. Don't delay. Save most by writing today

WORLD'S LARGEST SEED HOUSE SELLING DIRECT TO FARMERS

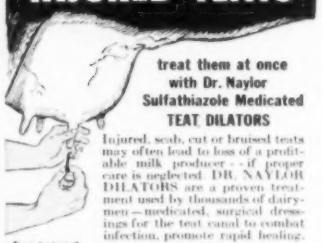
MOUNTAIN BROME $4.20 BU.
Splendid value, limited supply
SAMPLES FREE

ALSIKE CLOVER $20.85 BU.
HYBRID SEED CORN LOW AS $4.75 BU.

50 Gladiolus FREE
To New Customers—a grand surprise for you. 40 lovely gladiolus bulbs, free with farm seed orders. Assorted gorgeous colors, first quality, blooming size. Get our Big Free 1949 Catalog and learn about this free gift. Don't forget to specify FREE SAMPLES of any Field Seeds you want—Also you get the Free Tomato Seed Packet with your Catalog. Write

BERRY SEED CO. BOX 1715 Clarinda, Iowa

Don't neglect
INJURED TEATS



treat them at once with Dr. Naylor Sulfathiazole Medicated TEAT DILATORS

Injured, scab, cut or bruised teats may often lead to loss of a profitable milk producer - - if proper care is neglected. DR. NAYLOR DILATORS are a proven treatment used by thousands of dairymen—medicated, surgical dressings for the teat canal to combat infection, promote rapid healing.

Easy to insert
Stay in Teat

Keep Teat Canal Open
DR. NAYLOR DILATORS furnish soft, absorbent protection to delicate teat canal lining — keep teat open in its natural shape — encourage a normal milk flow. Smooth, rounded tips for safe, easy insertion — fit large or small teats. *Write for catalog describing other Dr. Naylor Dependable Veterinary Products.*

Large Pkg. $1.00 — 45 Dilators
Trial Pkg. 50c — 16 Dilators

Dr. Naylor
At Your Dealer's Or postpaid from H. W. Naylor Co. Morris 2, N. Y.

Medicated Teat Dilators

take your dirty work out of the kitchen

Every farm home needs a well-planned workroom for such typical farm jobs as chicken cleaning, canning, heavy laundering, cream separating. Successful Farming's *Building Book* will show you how to build a laborsaving workroom into your home. There are hundreds of good, sound remodeling and building ideas in this outstanding book.

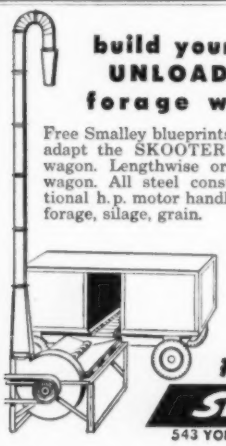
Get your copy today by writing to 2901 Meredith Building, Des Moines 3, Iowa. Price, only 50c.

NO OTHER LIKE IT

OTTAWA POLE SAW
Pats. Pending
Hitch to any power take-off tractor. No belts. Quick swinging hitch so poles will clear tractor. Move from tree to tree. Can hitch trailer to saw and load as you go. Saves time, earns money. FREE book and low factory-to-user price.
OTTAWA MFG. CO., S-523 Oak St., Ottawa, Kansas

build your own UNLOADING forage wagon

Free Smalley blueprints show how to adapt the SKOOTER to any type wagon. Lengthwise or crosswise of wagon. All steel construction. Fractional h.p. motor handles all types of forage, silage, grain.



Smalley
SKOOTER
WAGON UNLOADER

Smalley
AUGER BLOWER
Fills silo. Blows all chopped forages. Safely elevates, cleans, air-dries grains.

FREE blueprints — Write
Smalley Mfg. Co.
543 YORK STREET • MANITOWOC, WISCONSIN

Milking room

[*From page 42*]

easy operation. You can get detailed plans and a cost-finding list of materials for only $1. The plan number is 49S01. Be sure to mention that number when ordering. See the offer on page 42.

The over-all measurements are 20′x 38′2″. The milkroom itself is 10′x12′, as shown in the floor plans on page 42. If your state requires a 2-door vestibule between the milking stanchions and the built-in milkhouse, you'll find an alternate arrangement for that, too, at the bottom of this page.

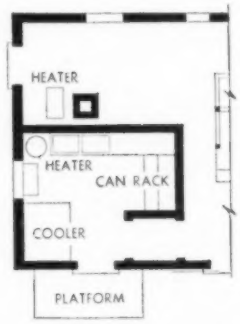
The six milking stalls and the feed-storage space for concentrates fed while milking should handle a herd of up to 25 pen-stabled cows in an adjoining barn.

To hold expense way down, we kept the six milking spaces or stalls at floor level—rather than raising them above the floor or trenching the floor below them so that udders might be reached by the operator without stretching or stooping. That "no stretch, no stoop" idea is a good one. Make no mistake. But the ramp and platform construction necessary to get it is bound to cost more.

THE manger design in Plan No. 49S01 demonstrates what I mean by being easy to keep clean and easy to operate. It is wide enough so that cows will dribble little or no grain in the alley. The mangers are raised so that cows will stand quietly while being milked. The manger surface is to be finished by steel troweling so that it will be smooth and may be licked clean.

Because dairy cows will drop very little manure in a milking room, the gutter need be only 2″ deep and 1′ wide. At the other ends of the stalls, conventional swing stanchions as used in the standard-type dairy barn should *not* be used. Stanchions on this 6-cow milking line of ours should be rigid and so arranged that all of them can be opened or closed at the same time. Commercial equipment of this type is on the market and is, of course, more satisfactory and foolproof. But stanchions *can* be homemade as you will find them illustrated on the plan set.

The stall platforms and the litter alley have a slight slope so that they will drain to the gutter. The feed alley is wide



If you live in a state or community where regulations call for two doors between the space where cows are milked and the milkroom itself, the alternate plan above will do the job. Doesn't change over-all dimensions

enough (4′) so that a man can walk thru conveniently. The end alleys are wide enough so that a feed cart can be used; and the litter alley is sufficiently wide (6′) so that cows will have no trouble in entering and backing out.

Heat for the building can be a kitchen heater placed as shown.

The chimney should be well built and made firesafe, particularly because the building is attached to the main barn. The chimney should extend to the ground and rest on a footing. It should have a flue liner. A spark arrester should be installed, altho one is not shown.

WE HAVE shown two of the chimneys as carrying metal stacks above the roof of the milking room. These will carry to about 1½′ above the ridge of the barn and eliminate much of the danger of flying sparks, especially if equipped with arresters. Even when the milking room is built end to end to the barn, such an arrangement might be necessary. (Better consult your local fire chief.)

In order to conserve all heat possible, the building is shown in the plan set as being heavily insulated. Heat losses can be cut down further by putting on storm windows.

Louvers are provided in the loft space so that air can circulate in and out freely to aid in keeping the insulation dry.

Vertical siding with batten strips is shown on the plans as the material for the outside walls. This can be rough-sawed lumber spray-painted. Or novelty siding or clapboards can be used just as effectively.

Or, still further, you may prefer cinder blocks or other lightweight masonry blocks for the walls. If they are used, it is recommended that the cores be filled with insulating material and further insulation be provided by nailing vertical, 2″ furring strips on the inside and sheathing over these. This will provide a space that can be filled with insulating material.

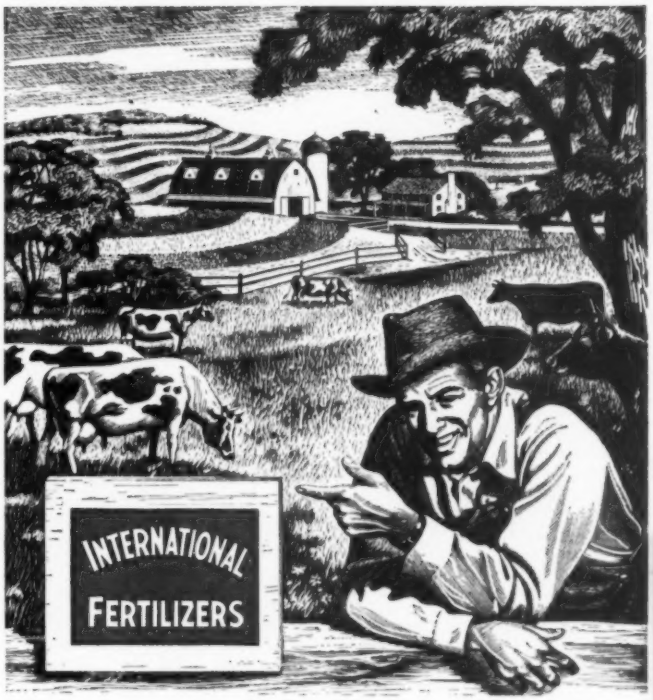
The inside wall of the milking room is shown as cement-asbestos board backed with lumber to a height of 4′ behind the cows, so as to eliminate breakage.

THE ventilation detailed will aid in keeping the walls dry and in removing odors. Three built-in intakes are shown. These direct the air straight upwards—so as not to cause drafts on cows or operator. The intakes should be left open while the cows are in the milking room. The stove and chimney will act as an outtake to remove the moisture-laden air.

The crosstie coming in over our milkhouse door is doubled so that a track can be attached for conveying cans by means of the hoist fastened to a roller.

The building as a whole lends itself to a wide range of situations. It can be attached to most any barn. If attached as an "L" as shown on page 42, it provides a windbreak for cows going on out into the yard. Another possibility is to build a milking room and milkhouse on to the *end* of the barn as shown. This can be done where plenty of room is available. Still another possibility is to build a lean-to on the *side* of the pen barn as shown. Such a setup would tend to be slightly warmer. Perhaps artificial heating would not be necessary.

No matter how you may plan to attach a milking room to your barn, be sure to check your local and state laws for details before you build. Finally, remember the plan offer on page 42. END



Fertilized Pastures

help build the productivity of your soil

Many farmers are using long-rotation pastures, generously fertilized to build up the valuable organic matter, as a practical means of preventing erosion and increasing the crop-producing power of the soil.

By fertilizing pastures with plant foods of high potash and phosphate content, you can nourish the healthy growth of cover crops which add needed organic matter to the soil. In this way, you prepare the land for the future production of cultivated crops, and at the same time provide abundant money-saving forage for your livestock.

You will find it profitable to depend on high quality *International Fertilizers*, as so many other farmers have for nearly forty years, for the mineral-rich plant foods you need for pastures and other crops.

Your *International Fertilizer* Agent is prepared to help you select the plant foods best suited to the requirements of your crops. See him now—place your order early for International crop-producing plant foods to be sure of obtaining the fertilizers that will give you *satisfaction at harvest time.*

International Minerals Chemicals

Plant Food Division, International Minerals & Chemical Corporation. General Offices: 20 North Wacker Drive, Chicago 6.

INTERNATIONAL FERTILIZER TRADE-MARK REG. U. S. PAT. OFF.

Now Many Wear

FALSE TEETH

With More Comfort

FASTEETH, a pleasant **alkaline** (non-acid) powder, holds false teeth more firmly. To eat and talk in more comfort, just sprinkle a little FASTEETH on your plates. No gummy, gooey, pasty taste or feeling. Checks "plate odor" (denture breath). Get FASTEETH at any drug store.

4 CYCLE
BRIGGS & STRATTON
GASOLINE ENGINES

You Can Always Count on Briggs & Stratton

To improve still further and make even better the world's finest 4-cycle, single-cylinder, air-cooled gasoline engines.

To maintain and even raise the high standards set for materials, workmanship, methods, and precision production.

To expand and improve the world-wide organization of factory approved service stations.

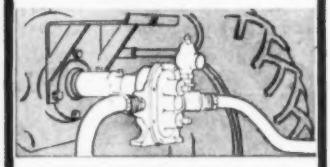
To continue to be accepted as "preferred power" by users, dealers, and manufacturers of farm machinery, tools, and appliances everywhere.

BRIGGS & STRATTON CORP., MILWAUKEE 1, WIS., U. S. A.

GOOD MONEY IN WEAVING

Earn money **at home** weaving rugs, carpets, etc. from old rags or new yarn—in your community! No experience necessary. 31,000 doing it with easy running **Union Looms** costing only **$49.50!** Send for our **free booklet** today.
UNION LOOM WORKS, 359 Post St., BOONVILLE, N.Y.

INSTALL A LOW COST HI-PRESSURE TRACTOR PUMP
Even Flo



FOR SPRAYING AND PUMPING

You've a pumping job to be done. "Ten-to-one" the EVEN FLO Hi-pressure Tractor Pump can do it quickly—easily—economically. Just tighten set screw into spline root of any tractor with power take-off—and EVEN FLO's ready to pump or spray—forcing water over the tallest silo—spraying the highest tree. Pumps up to 500 gallons per hour at low speed— highest pressure over 900 lbs.

Cast bronze case—cut bronze gears—easy lubrication mean long life—filling tires, putting out roof fires, etc. There are no belts to break—no expensive mechanism to wear. Comes fully equipped and ready to use, complete with safety valve and special fittings. *Write for Free Color Folder*

CONTINENTAL BELTON CO.
BELTON 8, TEXAS

Livestock

Hope for hybrids

CROSSES between two inbred lines, developed at the Indiana Agricultural Experiment Station, have resulted in pigs which have outperformed purebred Durocs and crossbred Poland China x Chester White pigs.

For instance, the crosses in 1947 averaged 212 pounds at 154 days, as compared with the 188 pounds for Durocs and 194 for the Poland-Chester White cross. At this writing, observations pointed to similar differences among the 1948 pigs.

Observations at the Indiana station indicate that hybrids promise to be longer-bodied and to have a higher percentage of meat in the primal cuts (hams, loins, picnics, Boston butts, and bacon bellies) than the other hogs. Limited results indicate that hybrid vigor is expressed in mothering ability, as well as in rate of growth. Six hybrid gilts raised an average of 9.3 pigs—a figure well above the average of any other gilts used in the Indiana experiment.

Intensive inbreeding at the Indiana station has produced two inbred lines. One, the White King, was developed thru intensive inbreeding among descendents of purebred Chester White foundation animals. The second line, the Landroc, has resulted from inbreeding among descendants of crosses between Durocs and Danish Landrace. Crosses between these two inbred lines have resulted in the present hybrids.

What hogs get from steers

HOW MUCH feed does a hog pick up from following steers? Tests have been conducted at the Iowa Agricultural Experiment Station in an effort to find more exact information about this important factor in feeding.

Pigs saved from 57 to 76 pounds of shelled corn per 100 pounds of gain made by each lot of cattle. From 2 to 3½ pounds of protein were saved per 100 pounds of gain made by the cattle. This saving ran between $2.47 and $3.33 for each 100 pounds of gain put on the cattle per lot.

Looking at it from another angle, steers followed by hogs could sell for $1.02 to $1.26 per hundredweight less and still break even, than if the hogs were not picking up wasted feed.

C. C. Culbertson, in charge of the experiments, explained that, altho it was assumed all hogs behind the cattle would have the same ability to produce pork, such was not true. There always are differences in individual hogs, and this, in part, accounted for the variation. Furthermore, cattle on full feed will waste more feed for hogs to retrieve than cattle kept on a limited grain-feeding program.

Culbertson says that a big reason why some farmers don't have good luck with hogs following steers is that the hogs are not fed enough in addition to what they are able to pick up. Pigs following heavier cattle will pick up more than those behind lighter steers or calves. But, in all cases, it will pay to have some pigs around to clean up the waste where cattle are being fed.—*D. C. W., Iowa.*

New HEISLER OVERDRIVE TRACTOR TRANSMISSION

FITS ALL F-20, F-12, F-14, F-30 AND REGULAR FARMALLS

8 SPEEDS FORWARD
2 REVERSE
2 POWER TAKE OFF
2 BELT

Get the most economical speed from your tractor—**save fuel—time—money**—handle more jobs. Get more work output per hour with no lost power.

- THE RIGHT SPEED FOR EVERY JOB
- FROM STANDARD-LOW TO 17½ MPH
- EASILY INSTALLED
- LOW COST

SEE YOUR DEALER—TRACTOR PARTS CATALOGUE CO. OR WRITE DIRECT FOR **FREE** LITERATURE.

ATTENTION: FARMALL H OWNERS

Order New Improved Heisler High Speed Gear Package. Gives step-up speed to third and fourth gears. Converts original third gear of 4.4 to 5.1 mph. Converts original fourth gear of 5.5 mph to 8.8 mph. Permits tractors to handle medium heavy loads with a time-saving speed and power that's sensational. (60-day delivery).

HEISLER MFG. CO., HUDSON, IOWA

SAVE LABOR
with MULKEY'S *NEW* Improved* (5½ in. Straight-Sided) All-Steel
PORTABLE* BALANCED ELEVATOR
for
- EAR CORN
- Baled Hay, Etc.

17½ ft. Maximum Lift
24 ft. Long

8' Standard or Reverse-Action Hopper Available

★ One man can handle and operate.
★ New winch assembly easily raises elevator.
★ 8' & 14' Extensions. ★ Clutch & Brake (extra cost)

Write for FREE Literature and Prices

SAM MULKEY COMPANY
1621-E Locust St. Kansas City 8, Mo.

MAIL THIS TODAY

Free 200 EARLIEST TOMATO

Gurney's Earliball—Ripe in only 62 days. Bright red, smooth, delicious. Fine for slicing or canning. Big pkt. enough for any family; also handy Planting Guide and new Catalog of HARDY NORTHERN GROWN seeds & plants — all free, postpaid. Please enclose stamp.

Get this big pkt. Tomato, and Catalog & Planting Guide, free. Write your name, address plainly, mail.

GURNEY SEED & NURSERY CO.
613 Page St. Yankton, So. Dak.

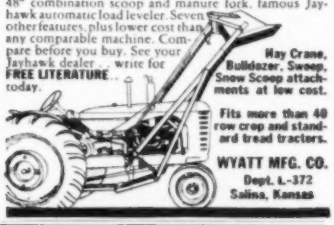
... big yields took a lot last year

Yes, there was a lot taken from your soil last year that could be directly traced to your big yields. And, no soil is so good that it doesn't need proper care to insure future productivity.

Your *Successful Farming* field service man will furnish you with information about soil care from an authoritative book, *That Soil of Yours*, which he has with him when he comes to call. Ask to see it, and discuss with him any questions you might have about your soil. He stands ready to serve you always thru *Successful Farming*.

IMPROVED AUTOMATIC Jayhawk
ONE MAN HAY TOOL
Costs Less . . . Saves MORE Time, Labor, Money in the Hay Field
Jayhawk sweeps from swath, windrow, bunch.. loads wagons..builds stacks 25 feet high. Feeds livestock, fills barns, hay sheds, has many other uses. Carries load on its own wheels, not on tractor. Attaches, detaches in 2 minutes. No competition in low price, low operating cost, durability. Sold by Jayhawk dealers.
CATALOG FREE.
Write today:
WYATT MFG. CO.
741 5th St.
Salina, Kansas

NEW Jayhawk HYDRAULIC LOADER
NOW MORE THAN EVER
AMERICA'S BEST HYDRAULIC LOADER BUY!
Costs Less . . Has *MORE* Farm Proved Advantages Than Any Other Loader
Simplified, practical design. No framework above tractor..Jayhawk works anywhere a tractor will go. Attaches, detaches in 3 minutes. Has big 48" combination scoop and manure fork, famous Jayhawk automatic load leveler. Seven other features, plus lower cost than any comparable machine. Compare before you buy. See your Jayhawk dealer . . write for **FREE LITERATURE** . . today.

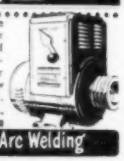


WYATT MFG. CO.
Dept. L-372
Salina, Kansas

NOW IS THE TIME TO BUY
THE NEW
1949
Automatic
ALUMINUM AND STEEL

Tractorkab
FOR ALL YOUR TRACTORS
Get practical, healthful protection—increase the value of every tractor—add valuable extra days to your farm work calendar—get more work done on time regardless of weather—keep good help longer—solve tractor storage problem with the new 1949 AUTOMATIC TRACTORKAB. This sturdy, quiet, aluminum and steel kab with shatterproof hinged windows set in rubber gives all-year service, extra comfort, extra profit.
See Your Dealer or Paste This Ad on a Card With Your Name and Address—Mail to Department SF-4
FITS 40 MAKES and MODELS of TRACTORS
AUTOMATIC EQUIPMENT MFG. CO.
PENDER, NEBRASKA, U.S.A.

Low Cost POWER Generator for Electric Lights, Power Tools, Arc Welding
You can have all the AC Power needed for hundreds of jobs and guard against power-line failure. Ask for FREE book on how to build your own. **HOBART** Brothers Co., Box SF-19 Troy, Ohio



Breed news

Best lifetime production

NAMED "leading lifetime milk producer in the United States" is Penstate Veeman Josie, a 16-year-old Holstein in the herd of the Pennsylvania State College. Her record for the period ending July 1 showed 222,502 pounds of 3.2 percent milk, and 7,019 pounds of butterfat. Now in her thirteenth lactation, she is "doing better than 50 pounds of milk a day," reports her herdsman.

A profitable sow

THE FIRST sow to make a six-star record in the Hampshire Production Registry is Ringold Lady Dora, a 5-year-old owned by William C. Goodheart, Jr., of Eaton, Ohio. In her six star litters she has raised 62 pigs, an average of 10.3. She has raised two other litters containing a total of 13 pigs, or a grand total of 75 pigs in eight litters. Her star litters averaged 418 pounds, 56 days after farrowing.—*C. D. L., Washington, D. C.*

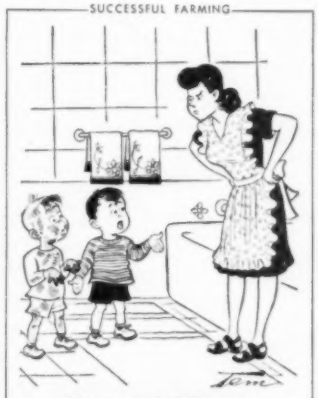
Swiss breeders win awards

FOR THE second consecutive year, Lee's Hill Farm, Morristown, New Jersey, has been named winner of two Ira Inman awards, representing outstanding achievement as a member of the Brown Swiss Cattle Breeders' Association. Lee's Hill Farm was presented with a silver cup as winner of the Premier Breeder award, and with an identical trophy for the R.O.P. award.

The latter honor goes to the owner of the cow completing the highest record during the year on Register of Production test. The winning cow made 29,392 pounds of milk and 1,214 pounds of butterfat in 365 days, three-times-daily mature-equivalent basis.

The John Ingold Estate, Monroe, Wisconsin, won the Herd Improvement Registry trophy, another Ira Inman cup. The winner is determined by the highest score made on the five following points: years on continuous H.I.R. testing, size of milking herd, percentage of milking cows bred by owner, percentage of cows that exceed breed average, and the percentage of the cows in the dairyman's herd that have been tested. END

SUCCESSFUL FARMING



"But you let YOUR guests use the guest towels."

Always, through the years, lanolin-loaded BAG BALM has been first choice of dairymen for fighting Chaps, Cuts, Wire Snags, Sunburn, Windburn and for beneficial massage of Caked Bag. There's a reason. Bag Balm "has what it takes" to keep teats and udder in full-milking condition . . . honor-made for your satisfaction. Just the right consistency, antiseptic-on-contact, and STAYS ON for needed time. All stores. Write for free copy of "Care and Feeding of Dairy Cattle."
Dairy Ass'n Co., Inc., Dept. S, Lyndonville, Vt.

TOUCHY UDDERS
YIELD TO LANOLIN-LOADED
Bag Balm

FREE *Literature* SHOWS YOU HOW TO PROTECT YOUR Home and Farm from *FIRE*

Don't let FIRE catch you unprepared. Protect your property with INDIAN FIRE PUMPS! Only Clear Water used.
INDIAN FIRE PUMP *The World's BEST FIRE FIGHTER*
Ideal for home and farm buildings, forest, grass and grain field fires. **Also excellent for spraying all crops, weed killers, disinfectants and whitewash.** Low priced. Free literature, write
D. B. SMITH & COMPANY
4 MAIN STREET, UTICA 2, NEW YORK

BLACK LEAF 40 KILLS CHICKEN-LICE and FEATHER-MITES

CAP-BRUSH SAVES TIME, MONEY
Just tap liquid on perches and smear. Fumes arise, killing poultry lice while chickens roost. Cap-Brush makes a little go a long way. Original factory-sealed containers insure full strength.
4901
5-oz. Bottle Treats 450 Chickens or 300 Ft. of Roost.
Black Leaf
LOOK FOR THE ON THE PACKAGE

Advertisement

From where I sit ... *by* Joe Marsh

Nicest Compliment I've Had

One of the nicest comments I've received about this column was from an editor in the Middle West I called on. And while I don't like to give myself orchids, I think it illustrates a point.

"Joe," he said, "it so happens I don't agree with everything you say, but I always like to run your column. Because it gets down to earth and talks about *the right to disagree*. And it only asks for *tolerance* towards the other person's point of view."

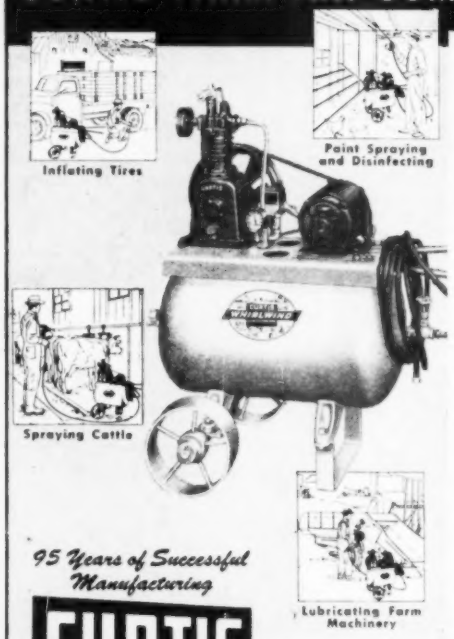
He went on to explain, by way of illustration, that he never had happened to have a taste for ale or beer. But that when I spoke of the *right* to enjoy a moderate beverage like beer, well, he was right there with me!

And from where I sit, that's the important thing: not whether you share another person's tastes or point of view — but whether you recognize his right to exercise a free choice in a free land.

Joe Marsh

Copyright, 1948, United States Brewers Foundation

CURTIS FARM AIR COMPRESSORS



SAVE TIME and LABOR

They're especially built for heavy-duty service.

PORTABLE OR STATIONARY

Electric ... Automatically starts and stops. Gasoline-engine ... Automatically stops.

- Timken Bearings
- Self oiling
- Unloaded starting
- Precision built
- Slow-speed ... Long-life

See your implement dealer or write for full information.

95 Years of Successful Manufacturing

CURTIS PNEUMATIC MACHINERY DIVISION of Curtis Manufacturing Company

F-49-1 1903 Kienlen Avenue • St. Louis 20, Missouri

Dairy

Avoids frozen silage

PLACING AN ELECTRIC pig brooder over the area wanted for the next feeding put a stop to the nuisance of frozen silage during extremely cold weather for Hilbert Bierstedt, farmer in Palo Alto County, Iowa.

Comfort from calf brooder

NEWBORN CALVES now come thru the cold nights in fine condition for Clair Taylor, herdsman for M. F. Latham's Guernsey farm, Wayne County, Iowa. Taylor credits this to use of a brooder, made by covering a hog crate with burlap sacks and using an extension cord with heat bulb.

Fewer back strains

LIFTING CANS of whole milk into the cooling tank was too much of a job to be done by hand, reasoned D. W. Lensch, so he rigged up a can-hoist on his farm in Linn County, Iowa.

The hoist was made from a piece of channel iron, an old hay carrier, and an electric lifting motor. His milk hauler likes it, too, and Lensch wonders why more dairymen don't make a similar type of back-saver.

High profit per cow

GETTING $300.50 per cow annually above feed cost is quite a trick, and Reuben Frank, of Scott County, Minnesota, attributes part of his success to the use of low-cost feeds. A firm believer in well-balanced rations, he feeds a mixture made up of 750 pounds of ground ear corn, 400 of bran, and 200 of linseed meal, giving about a pound for every 4 pounds of milk produced. He finds that he keeps down udder trouble by using less protein. He likes bran in his formula because it's bulky and is considered a good bone builder, due to the phosphorus in it.—*H. S., Minnesota.*

Why larger dairy herds?

A SEARCHING INQUIRY into operations of 40 livestock farms (16 with 6 or more cows) in Indiana showed that the five largest herds produced a hundredweight of milk for $2.28 less than the six smallest herds in 1945. The higher costs of feed and labor for the smaller dairy unit make a difference of $1.30—74 cents more for feed, 56 cents more for labor—for each hundredweight of milk sold.

These 16 farms included in the survey of the Purdue University Agricultural Experiment Station carried on dairying in a limited way, largely as a side-line activity. With reference to size, the largest herd had an average of 21 cows, the average was 11.3 cows, and the smallest unit 6.5 cows.

On the 16 farms, calving was staggered over a 12-month period, replacements were raised at home, and vealers were marketed when 2 months old. Cows were kept on pasture for 158 to 275 days—an average of 202 days for the season. Machine milking was used on seven farms averaging 12.3 cows each.

All of the 16 farmers studied (6 or more cows each) sold whole milk, part of it going into fluid uses, and the other portion into manufacturing stable dairy products.—*S. R. W., Florida.*

Poultry

New lifesaving drug

A TWO-PRONGED attack on coccidiosis is being found in sulfaquinoxaline, according to Alexander Gordeuk, extension poultryman at Purdue University. It is useful both as a preventive and as a treatment after cecal (bloody) or intestinal coccidiosis gets into the flock.

When fed as a preventive, it still permits the chick to build an immunity, and, for this purpose, is fed at the rate of only 4 ounces per ton of chick feed. When fed as a control for coccidiosis already present in the flock, sulfaquinoxaline is fed at the rate of 1 pound per ton of chick feed, well mixed.

Why some flocks pay better

PROOF THAT a farm flock can contribute a good income return when handled on a business basis is shown by figures from winners of the Missouri Farm Flock Improvement Contest.

For the last five years, the annual income above feed cost per flock averaged about $1,300 annually. About 375 layers per flock were housed in the fall, with an average of 297 layers thru the year. On a per-hen basis, annual income above feed cost was $4.38. Annual egg production per hen was 205. Percent production thru October, November, and December was 48.

In contrast, the average Missouri hen during the same 5-year period laid 105 eggs annually. Rate of lay during the fall months was only 23. Average flock size for the state was less than 100 layers. Income above feed cost probably was not more than $150 to $200 annually for the average flock.

One additional reason for the income difference was the fact that the contest winners usually had some type of marketing program, which returned more to the farmers than was possible on a current receipts market. In general, this group sold to graded outlets, hatcheries, or combinations of these two. A few had special outlets.—*E. B. W., Missouri.*

Laborsaving feed storage

SPOUTING MASH and corn by gravity from an overhead storage beats carrying, figures W. H. Hardin, Andrew County, Missouri. A spout from each bin, in this 30'x30' hen house, makes a simple job of feeding. Feed must be hauled every two weeks. The oats supply is kept in a barrel in the laying house.—*E. B. W., Missouri.*

GEHL
SINCE 1859
PRONOUNCE IT "GALE"

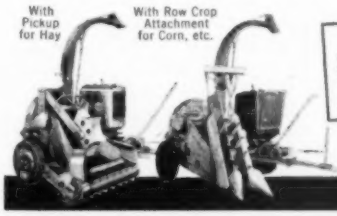
Now
IS THE TIME TO
see and compare Forage Harvesters

Be sure you see the Gehl . . . a pioneer Forage Harvester, *time* and *field tested*. Thousands in use. Just the kind of a machine you'd expect from experienced Gehl engineering.

That famous Gehl cutting mechanism, doesn't shred the fodder, it REALLY CUTS . . . *clean* and fine, as it should be. Makes silage the way you want it. With row-crop attachment, it cuts standing corn . . . tall, short, straight or tangled; chops and blows it into trailer-wagon or truck.

Pickup attachment works fine on windrowed hay or combined straw. Separate blower elevates the forage to silo or any part of mow.

The Gehl Forage Harvester has its own engine and is easily handled by ONE MAN and a light tractor. Available, too, with power take-off. ASK YOUR NEIGHBOR who owns one. The many outstanding features of the Gehl Forage Harvester are explained in a FREE BOOKLET, mailed on request with name of dealer.



"Gehl Sales are Blowing a Gale"
Our production is up, but still we can't keep up with the demand. The Gehl Forage Harvester is winning MORE and MORE farmer customers every day. Order early to be sure you get a Gehl.

GEHL BROS. MFG. CO.
Dept. MA-504 West Bend, Wis.
There's nothing better than a Gehl

FREE SAMPLES FOR TESTING GRASS SEED
TO EVERY FARMER WHO NEEDS SEED AND WRITES FOR CATALOG

BUY DIRECT SAVE MONEY
1949 CATALOG FREE

High Quality Seed at astonishing savings in price. We offer genuine seed bargains. Prices unusually low for this year—but buy early! Seed is scarce. Have all kinds of farm and grass seeds. Free catalog quotes our bedrock prices. Write for free Samples of Grass Seeds—tell us which you are interested in.
NEW SEED CROPS Ranger Alfalfa, Clinton "59" Oats, certified

SEED TESTED—GUARANTEED

Every pound of seed guaranteed satisfactory. Before you buy seed anywhere, write for 1949 Bargain Seed Book and read full descriptions, low prices. Also get FREE SAMPLES and see for yourself. Thousands of customers have saved money buying direct from us at lower prices. You may test all seed—and we guarantee money back if not satisfied. FREE Big Seed Guide, also Free Samples any farm seeds you want for testing. Write.

HARDY U.S. ALFALFA
Special Offer. Save on hardy triple recleaned seed. High germination. Extra fine value. Alfalfa stocks short.
Sample FREE.
$24.00 BU.

ALFALFA GRIMM
Northern Grimm. Stands severest weather. Have Certified Grimm at money saving prices. Cossack Alfalfa at low prices. Samples Free.
$27.70 BU.

HYBRID CORN
Also State Certified. With High Yield records in Illinois, Iowa, etc. New crop, High Germination. Write us for information Free.
GRADED $4.75 BU.

NEW MOUNTAIN BROME $4.25 BU.

AMERICAN FIELD SEED CO. DEPT. 1719 CHICAGO, ILL.

Farmer's Trading Center

Advertisements using illustration or display (large) type, $5 per agate line. This classification is open to baby chick, poultry, livestock, pet stock, and schools. Straight classified (no illustration or display type)—20 word minimum—all classifications—60 cents a word. Write Successful Farming, Des Moines 3, Iowa, for complete information.

FILM FINISHING

Moen's sensational 50th Anniversary specials. New amazing equipment produces sharper supersize prints faster. Send film today. See the difference. 8 exposure rolls developed and printed contact size, 30c. 8 supersize genuine Moentone Prints 35c. 12 exposure, 50c, 16 exposure, 65c. Mailers Free. Moen Photo Service, 5 Moen Bldg., LaCrosse, Wis.

Prompt Service. Guaranteed Satisfaction. "Two" prints of each negative, deckledge velox prints, only 30c per roll. Highest Quality. Reprints special offer—Write Mail today! Welch Photo Company, 2418-36 Penn, Minneapolis, Minnesota.

Dated One Day Service—roll developed, 8 prints 25c premium coupon for 8x10 inch colored enlargement. Send negative and 25c for 5x7" Goldtone enlargement. Camera Snaps, Box N-977, Oshkosh, Wis.

8 prints all enlarged to nearly postcard-size from your roll of negatives 25c. 16, 50c. (Trial offer) Willard Studios, Box 3535-N, Cleveland, Ohio.

2 **Beautiful Hi-Gloss** prints each good negative and enlarging coupon with each 8, or 8 exposure roll developed 25c. Oal Photo Co., Weatherford, Oklahoma.

8 Giant enlarged prints from your roll or negatives 25c. 16—50c. (Trial Offer) Top Quality—Quick Service. Artcraft Studios, Box 3518N, Cleveland, Ohio.

Two Sets of "Deckledge" Prints with every roll finished, 30c. Very finest quality. Deckledge reprints 3c each. Brown Photo Company, 1910-43 Emerson, Minneapolis, Minnesota.

Careful Handling—Prompt Service. Eight exposures developed and printed 50c. Two prints each 3½c. Reprints 3c. Comet Photo Service, Box E-266, Minneapolis, Minnesota.

Two beautiful prints from each picture on roll 30c. Twenty-seven years of satisfied customers. Quick service. Lens Photos, Dept. C10, Janesville, Wis.

Finish And Print 6X or 8X film 25c. With 2 prints 35c. Reprints 3c. Photo Art Shop, Box E-3406, St. Paul, Minnesota.

Personalized 1949 Photo Calendars or Valentines made from your negatives 10c each including envelopes. Young Photo Service, 445-V, Albany 2, N. Y.

Special Get Acquainted Offer. 16 prints, 25c. Send roll of negatives. Fast service. High quality guaranteed. Dick's Photo, Louisville, Ky.

This ad and 25c gets you 10 oversize reprints or 5—4x6 enlargements. Jumbo Printers, Lake Geneva 9, Wisconsin.

Beautiful enlargement from each picture on roll 30c. Cut Rate Photos, Dept. 6, 1, Janesville, Wis.

LIVESTOCK

Good, strong, carefully selected Guernsey or Holstein heifer calves pure-bred, not registered. $45 crated on express car, older calves $50. 20 to 35 delivered by truck to your farm on approval. Also a few Brown Swiss calves. H. R. Lobdell, Mukwonago, Wis.

Wisconsin's Choicest Holsteins. Guernseys and Brown Swiss heifer and bull calves. Well started, no milk required. Registered and high grades. Fifty on hand at all times. Write for pictures and prices or visit us. J. M. McFarland & Son, Watertown, Wisconsin.

Tamp-R-Pruf Ear Seals. Positive Livestock Identification. Self-piercing, humane, permanent. Stamped with name and number. Rustproof—Inexpensive. Over 50,000 users. Free Samples, Catalog. Write Security Seal Co., Dept. 3, 144 W. 27th St., N. Y. 1, N. Y.

Brahman Bulls give you 91 pounds per calf from your cows at five months. 1000 weaned calves—Registered—now ready. South Florida Brahman Breeders, Inc., Box 407 D, Bradenton, Florida.

"How To Break And Train Horses"—A book every farmer and horseman should have. It is free, no obligation. Simply address, Beery School of Horsemanship, Dept. 201, Pleasant Hill, Ohio.

Registered Berkshires: All ages, improved bloodlines. Short legged, deep bodied, today's feeder type. Farmer's prices. Also Registered Angus cattle. 4-H Stock. Owen Stock Farms, R. No. 5, Spencer, Indiana.

Choice Heifer Calves—month old, from Wisconsin's selected high production cows. Holstein and Guernseys. Greenwald Bros., Oakland Dairy Farms, Mukwonago, Wisconsin.

Yorkshire Hogs—The lean-meat postwar breed. Bred Gilts, Pigs. Unrelated boars. Illustrated circular. Yalehurst Yorkshire Farm, Peoria, Illinois.

Dollar Bill Brings you hundreds of profitable hog raising ideas, year's subscription to monthly magazine. Write Hog Breeder, Peoria 2, Illinois.

Train horses by circus methods. Colts, cattle, stock, gaited horses. Free book. American Horse Training Institute, Box CA-110, Columbus, Kansas.

101 Tennessee Walking Horses—World's greatest Pleasure Horse—Send 25c for 43 page beautifully illustrated catalog.

Bailey Evans, Shelbyville, Tennessee.

Karakuls—Interesting, profitable, easy to raise. Informative booklet free. United Karakul Registry, Box 649, Twin Falls, Idaho.

Want to go on a quick shopping trip? Read thoroly the many interesting advertisements in the Farmer's Trading Center.

FARM SEEDS AND NURSERY STOCK

Free—Baldwin's 1949 Catalog of Fruits, Shrubs, Roses, Flowers. Guaranteed stock, reduced prices. 60 years experience. New Fairland and Superfection Strawberries. Best varieties Raspberries, Boysenberries, Blueberries, Grapes, Asparagus, Tree Fruits, Nut Trees. Special offers—Cash discounts. Illustrated catalog Free. Write today. O. A. D. Baldwin Nursery, Box 78, Bridgman, Mich.

Alfalfa, highest quality, $26.85 bushel; Hardy Grimm Alfalfa $27.60; Red Clover, special Lot Leader, $24.95; Alsike Clover $20.85; Sweet Clover $11.25; Alsike and Timothy Mixed $10.35; Mountain Brome $4.20; Hybrid Corn $4.75. All per bushel. Triple treated. Complete stocks all other seeds lowest prices. Guaranteed satisfactory. Free Samples and Catalog. Bergy Seed Co., Box 419, Clarinda, Iowa.

Funk's G-Hybrid corn resists diseases, insects, drouth, cold; super standability; top feeding quality—big yields, good years or bad. Nationwide research puts best qualities of native varieties in vigorous, high-yielding strains adapted to your farming conditions. New Corn Guide free. Write Funk Bros. Seed Co., Box S, Bloomington, Ill.

Strawberry Plants—Allen's 1949 Berry Book tells best varieties for home and market, and how to grow them. Free copy. Write today. W. F. Allen Company, 25 Pine Street, Salisbury, Maryland.

1948 Sweet Clover Seed Crop is second smallest on record. Write now for prices and free samples while stocks are available. Grimm Alfalfa Association, Fargo, N. D. 500 Cooperating Growers.

For Sale: Cossack, highest yielding Alfalfa seed; Permanent Pasture Grass, best yielding Mindo Seed Oats. Bober and Sons, Box 751, Rapid City, South Dakota.

White Birches, Weeping Willows, Red Maples, Black Walnuts, Lombardy Poplars. Four feet, 50c each postpaid. Folder. Order Now. Willmar Nursery, Willmar, Minnesota.

Tre-Tex saves trees from rabbits, mice, borers, sheep, deer, etc. Sold 45 states, Canada, Mexico. Eighth year. Agents wanted. 16-oz. pkg. (25 trees) $1. Six lbs. $9. 4-page testimonial circular. E. L. Eckerley, Box 91, Noblesville, Ind.

Peach Trees 9c, Apples 15c. Send for catalogue, other trees, plants, and roses. Salesmen wanted. Baker Nurseries, Higginson, Arkansas.

New and Profitable Hardy Fruits! Developed by Prof. N. E. Hansen for quick, sturdy growth and heavy bearing anywhere in the U. S. A. Almata, large, all-red-fleshed apple. Anoka Apple, earliest bearing, fine eating, productive; Manchurian Apricot, hardy and prolific; Plums of many new early bearing varieties, all good, latest Super Bush Cherry, heavy bearer, large fruit, can be grown in yard on plants no larger than currant bushes, and many other delicious new fruits. Ornamentals include beautiful Red Silver and Manchurian Beauty Flowering Crabs; lovely May Day Tree; Hansen's Thornless Double Roses, Shikka Everblooming Orchid Iris and Fern Leaf Peony. Prosso, the wonder catch crop, and other forage grain and grasses. Send postcard for free illustrated catalog. Hansen Nursery, Dept. SFC, Brookings, S. D.

Hardy Alfalfa, U. S. grown, $24.00 per bu.; hardy Grimm $27.70; Red Clover $25.00. Alsike Clover $19.95. Scarified Sweet Clover $11.30. Timothy and Clover Mixed $9.95. New Mountain Brome $4.25. Hybrid Seed Corn, tested, $4.75. Prices low on Red Clover, Timothy, Lespedeza, Alsike, etc. New Certified Clinton 59, Mindo and Benton Oats. Our seeds recleaned, tested. Guaranteed satisfactory and sold subject your 60-day test. Write for free samples and 1949 Catalog. Hurry, scarcities exist. American Field Seed Co., Dept. 319, Chicago 9, Ill.

Peach and Apple Trees Low As 20c. Pears, plums, cherries, nuts, berries, grapevines 10c. Evergreens, shrubs, shade trees low as 25c. High grade quality stock can't be sold lower. Forty page color catalog free. Tennessee Nursery Company, Box 110, Cleveland, Tenn.

Willhite Melon Seed Farms. Poolville, Texas. Grower and producer of superior quality watermelon and other vine seed. 38 varieties. Certified Black Diamond. Dusters. Hotkaps. Beautiful illustrated catalogue with complete planting guide free. Write for one.

Certified Mindo, Clinton Oats $1.75 per bushel, uncertified $1.50, bagged, tagged. Special prices on Large quantities and Carlots. Owen A. Johnson, Malta, Illinois.

Seed Oats, Barley, Wheat, Flax, Soybeans. Best varieties. Cleaned, bagged and certified. Top quality seed. Reasonable. Graindale Farms, Waterville, Minn.

Quality Glad Bulbs—Send for our Catalog of the Best in Gladis at reasonable prices. Gladridge Gardens, Madison 2, Ohio.

FOR FARMERS

Attention Cream Shippers! Ship us your cream. 34 years of honest, dependable service. Galva Creamery Company, Galva, Illinois, and Kansas City, Missouri. Peterson's Creamery, St. Paul, Minnesota.

Texas Tree-Ripened Oranges $5.50 Bushel Prepaid Express. Fresh From Grower O. L. Stroman, Route 1, Box 153, Mission, Texas.

Folks! I'll Be Happy to Send At 1/2 PRICE

A Trial Order of THIS NEW WHITE EGG HEAVY BREED

Yes! Right before my very eyes, I saw **BROWN EGGS TURN WHITE** and open the way to new profits in raising chickens. And I want you to see this for yourself, too.

Ever since just after the first World War, **Ruckers** has been known nationally for trapnesting, pedigreeing and superior breeding work. Now, our secret methods of **"In-Line" Breeding** have developed a heavy breed that lays white eggs. Just imagine a hen with the delicious **meat** qualities of Hamphires or Rocks but that lays big **white eggs** like White Leghorns . . . then you can visualize how brown eggs have turned white and realize that **White Hollands** and **Barred Hollands** are a practical successor to White Leghorns.

Try White Hollands yourself on our introductory offer:—to the first 100 poultry raisers who answer this ad and qualify as representative raisers per our "basic breeder" letter, I'll send a **starting flock** from my very finest Group 1 matings **at half price.** You'll be happy with White Hollands that lay better, live better, mature faster, sell off as a heavy breed but lay white eggs. Write today.

FREE New Book "Short Cuts to Bushels of Eggs and Easy Money", also pictures of **White Hollands, Barred Hollands, White Romans, Hybrid Cross 66, White Giants,** etc. Low prices day old chicks, pullets. **Sexed chicks 5c up.**

RUCKER'S IMPERIAL BREEDING FARMS, Dept. 145, Ottumwa, Iowa; Dept. 245, Sidney, Ohio; Dept. 345, Bethany, Mo.

25 EXTRA CHICKS 1¢

25 extra chicks 1¢ with each 100 of our Group 3 chicks. 10 extra chicks 1¢ with Group 2 chicks. Guaranteed big strong chicks from supervised blood-tested flocks. Winning monthly in egg-laying contests. Over 100,000 satisfied customers. We pay postage if cash in full is sent with order. You pay postage on C. O. D. orders. Prices subject to change without notice. 95% sex accuracy guaranteed.

	Str. Hatch	Males	Pullets
Group 3 Austra Whites Minorca-Leghorns	$12.90	$4.90	$25.80
White Leghorns	$11.90	$2.90	$23.80
N. H. Reds, Barred, White, Buff Rocks, Wh. Wyandottes, S. C. Reds	$11.90	$11.90	$13.90
Mixed Heavies	$7.90	$7.90	$9.90
Mixed Heavies No Sex Guarantee, 100	6.90	Light Breed Males for Broilers, 100	3.90

Group 2 2¢ higher—10 extra chicks 1¢ with each 100
Group 3 5¢ higher—25 extra chicks 1¢ with each 100

SCOTT HAYES CHICKS
Dept. 259 Centralia, Ill.

Make Sure of Your PROFITS with **CLOVER VALLEY MASTER BRED CHICKS** They cost you No More!

BIG DEMAND LOWER FEED COST makes prospects for profits bright—but to cash in on those profits start early with chicks that will produce. That's why our 43 years' experience in producing husky chicks that live, grow fast and mature early counts. They "earn" big money-makers for thousands of customers, let them make money for you this year.

Early CHICKS WILL PAY THIS YEAR

Play safe—place your order now for chicks from:

One of America's Oldest Established Hatcheries

Our big volume made possible by 43 years of satisfactory profits for thousands of customers enables us to sell quality chicks at very reasonable prices.

All Clover Valley Chicks Ind., U. S. Approved—Pullorum Passed

Your choice of sexed or straight-run chicks in all leading breeds—and cross breeds. 95% sex accuracy guaranteed. Liberal livability replacement guarantee.

2 Helpful Books FREE

Write for catalog, also helpful book on Poultry Management. A postcard brings them.

CLOVER VALLEY POULTRY FARM
Box 39 RAMSEY, INDIANA

NEW SEEDS

MOORE BARLEY—HAWKEYE SOYBEANS

We also have Mindo, Bonda and Clinton Oats, Hybrid Seed Corn and Ladino Clover Seed. All seeds triple-cleaned and Certified "Blue Tag". Order your seeds for 1949 now. Write for free folder.

HOWARD RASMUSSEN
Tomah, Wisconsin

How to be sure of GOOD STOCK every time you buy depend on ZEELAND HATCHERY

Which of these MONEY MAKERS *will you raise?*

Chicks, Started Pullets, Turkey Poults and Ducklings for your selection. Each one a Zeeland Specialty and hatched in special, separate buildings and equipment.

MINORCA X LEGHORNS

CHECK THESE EXTRAS YOU GET WITH ZEELAND HATCHERY

- Reasonable Prices due to Large Volume
- Year around Operation makes Prompt Delivery Easy.
- Top Quality Breeding that Helps you Make Profits.
- A Liberal Guarantee that Protects You.

BRONZE TURKEYS

WRITE TODAY! for complete information. State your needs and get Special Attention on your inquiry . . . FREE CATALOGS.

PEKIN DUCKLINGS

ZEELAND HATCHERY INC.
ZEELAND Box 400 MICHIGAN

Farmer's Trading Center

Advertisements using illustration or display (large) type, $5 per agate line. This classification is open to baby chick, poultry, livestock, pet stock, and schools. Straight classified, (no illustration or display type)—20 word minimum—all classifications—60 cents a word. Write Successful Farming, Des Moines 3, Iowa, for complete information.

DOGS—PETS

Setters and Pointers. Fox, Coon, and Rabbit Hounds, shipped for trial. Catalog Ten Cents. State dog interested. Stanley Blake Mgr.
Blue Grass Farm Kennels, Berry, Ky.

Fluffy pure Eng. Shepherd Pups 8 wks $12.00. Training instructions. Guaranteed heelers, children's pals, watchdogs. Few partly trained, 10 mo. $25.
Creek-Side Kennels, Beardsley, Minnesota.

Genuine English Shepherd Pups—guaranteed heel-drivers—(no fouling) year's trial—training instructions—males—females—spayed females. Runft's English Shepherds, Reinbeck, Iowa.

Genuine English Shepherd Puppies. Natural heelers, watchdogs, make real companions. Pictures, folders free. Prices reasonable.
Russell Wahl, Rockport, Indiana.

Registered Scotch Collies, also grade Collies, English Shepherds for stock, watch or companion. Prices reasonable.
R. B. Slagle, Flanagan, Ill.

Canaries Wanted—Best prices paid. Write for shipping directions. American Bird Co., 2614 W. 25th Pl., Chicago 8.

Genuine English Shepherd Pups—Guaranteed heel-drivers. Year's trial. Training instructions. Males, females or spayed females.
Highview Kennels, Cedar Falls, Iowa.

Black English Shepherd, Puppies. The Best Farm Dog. Shipped on Approval. Ite for Picture, and Prices.
H. Chestnut, Chanute, Kansas.

English Shepherds—Border Collie Puppies. All ages, both sexes, choice colors, faithful workers, satisfaction guaranteed.
Fairmount Farms, Cedar Falls, Iowa.

English Shepherd, or Collie pups for watch and stock. Also Registered Scotch Collies. Reasonable. Zimmerman Farms, Flanagan, Illinois.

Want to Buy: Good Collie or Shepherd Puppies. Dept. H, Box 777, Des Moines, Iowa.

Sportsmen: 200 Pointers, Setters, Straight Cooners, Combination Hunters, Rabbit and Fox Hounds Reasonable. List Free. Ramsey Creek Kennels, Ramsey, Illinois.

Want to buy good collie or shepherd puppies.Dept. G, Box 777, Des Moines, Ia.

OLD GOLD—JEWELRY

Gold $35.00 Ounce—Mail old gold teeth, jewelry, watches, diamonds—receive cash by return mail. Satisfaction guaranteed. Free information. Dr. Weisberg's Gold Refining Company, 1309-T Hennepin, Minneapolis, Minn.

Highest Cash For Old, Broken Jewelry. Mail Gold Teeth, Watches, Rings, Silverware, Diamonds, Spectacles. Satisfaction Guaranteed. Free Information. Rose Smelting Co., 29-D East Madison, Chicago.

STAMPS

Free! New Issues from France, Italy, China, Ireland, Australia, Portugal, others. Free to Approval Applicants. Stamp Collectors, Dept. S, Box 325, New York S.

Free Catalog! Beautifully illustrated, United States Stamps, Albums, Packets, Supplies, Special offers. Information for beginners. Harrisco, 314 Transit Building, Boston.

Biggest 1c Investment—Send postcard asking how Mutual Helps You Collect Stamps. Mutual Stamp Service, 364F 19th Avenue, San Francisco 21, Calif.

FEATHERS WANTED

New Goose and Duck Feathers. Longest profit on your feathers. Ship to a pillow manufacturer established 48 years with plants in three major cities. Write for price list. Prompt remittance. Columbia Bedding Company, Department SF, 1750 N. Wolcott Ave., Chicago 22, Illinois.

Best Prices Paid for new Goose and Duck Feathers. Used feathers—send sample for price. Checks mailed same day shipment received. Progress Feather Co., 657 W. Lake St., Chicago 6, Ill.

Prompt payment for your new goose and duck feathers. Ship direct to pillow factory and get highest prices.
Paradise Pillow Co., 1007 E. 55, Chicago.

Highest Cash Prices for new and used goose and duck feathers. Ship to Midwest Feather Co., 2300 S. Calumet Ave., Chicago 16, Illinois.

DAIRY GOATS

"Primer For Goatkeepers".—Free Booklet! Introductory 6-month subscription to big, illustrated magazine, $1. Dairy Goat Journal, Columbia 25, Mo.

Grow Royal squabs in only 25 days, they sell for highest prices, poultry tops, large profit. Write today for FREE Book good food starter, our prices, easy directions, opportunity success methods of money-making breeders in every State. Start now.
TOP
RICE FARM, 297 H. St., Melrose, Mass.

LUX ROP LEGHORNS—Certified Chix and Eggs. Lux ROP hens averaged 254 eggs weighing 25.9 oz. —20,000 daughters and granddaughters from ROP hens—25 years specialized breeding for highest egg production—Catalog—
Lux Leghorn Land Farms, Hopkinton, Ia., Dept. 5-1

Wonderful POULTRY BOOK
FREE LOW PRICES 48 varieties SEX-LINKED and PUREBREDS; BABY CHICKS, Pullets or Cockerels, also STARTED CHICKS, BABY TURKEYS, Mature Fowls and Hatching Eggs. ALL FLOCKS BLOOD TESTED FOR BWD. Write quick for the fine free book.
GREAT WESTERN HATCHERY, Box 46, Salina, Kans.

FREE MRS. BERRY'S POULTRY BOOK
BABY CHICKS or STARTED, Chemical Mated, Licensed-Inspected, B.W.D. TESTED, 52 BREEDS, 6 HYBRIDS. Sexed or straight. Mature fowls, Hatching Eggs and Bantams. LOW PRICES. The ORIGINAL Berry's Farm—over 50 years' service. LARGE BEAUTIFUL BOOK FREE. Stamps appreciated.
BERRY POULTRY FARM, Box 104, CLARINDA, IOWA

AJAX WHITE GIANTS
FAMOUS MEAT-EGG PRODUCERS. Extra big profit breed. Contest-show winners. Massive capons, quick maturing. Illinois-U. S. Approved-Pullorum Controlled. Low farm prices. PROFIT SHARING PLAN. Colored Catalog FREE. Write TODAY.
AJAX HATCHERY, BOX 83, QUINCY, ILLINOIS

BIG CHICK BARGAIN $6.90 per 100
ASSORTED HEAVIES
(POSITIVELY NO LEGHORNS)
STRONG HEALTHY CHICKS
NO CRIPPLES!—NO CULLS!
Send Money Order for Prompt Shipment
LIVE DELIVERY GUARANTEED
"IN BUSINESS OVER 20 YEARS"
300 - $20
500 - $33
1000 - $65
We Pay Postage
ATLAS CHICK CO., Dept. SF ST. LOUIS, MO.

Free Book
RAISE HAMSTERS
The new wonder animals from Syria. Otherwise called Toy Bears. Delightful pets. Everyone wants them. Laboratories need thousands. Clean, odorless. Raise anywhere. Profitable and interesting. Write today for free illustrated catalog.
GULF HAMSTERY
1525 Basil Mobile, Ala.

25 EXTRA CHICKS 1¢
25 extra chicks 1¢ with each 100 of our Group 3 chicks. 10 extra chicks 1¢ with Group 2 chicks. Guaranteed big strong chicks from supervised blood-tested flocks. Winning monthly in egg-laying contests. Over 100,000 satisfied customers. We pay postage if cash in full is sent with order. You pay postage on C. O. D. orders. Prices subject to change without notice. 95% sex accuracy guaranteed.

	Str. Hatch	Males	Pullets
Group 1 Austra Whites, Minorca-Leghorns	$12.90	$4.90	$25.80
White Leghorns	$11.90	$2.90	$23.80
N. H. Reds, Barred, White, Buff Rocks; Wh. Wyandottes, S. C. Reds	$11.90	$11.90	$13.90
Mixed Heavies	$7.90	$7.90	$9.90
Mixed Heavies No Sex Guarantee, 100	6.90	Light Breed Males for Brooders, 100	3.90

Group 2—2¢ higher—10 extra chicks 1¢ with each 100
Group 3—5¢ higher—25 extra chicks 1¢ with each 100
SCOTT HAYES CHICKS
Dept. 259 Bloomington, Ill.

MEAT-TYPE HAMPSHIRES
Provide the Answer
✔Better Mothers
✔Cheaper Gains
✔MORE Meat
American hog growers are demanding Hampshires to get that extra pig per litter; more pounds of quality meat per head; and higher dollar value of carcass. They insist on Hampshire rapid growth, economy of gain, rustling ability and added profits. Hampshires are the answer to modern, profitable, quality pork production. WRITE for breed literature; location of 100 bred sow sales; addresses of nearby breeders.
FREE! SPECIAL: 1 yr. subscription to Hampshire Herdsman, breed magazine—Send $1.00 to
HAMPSHIRE SWINE REGISTRY
955 Commercial Bank Bldg., PEORIA, ILL.

BRED SOWS
By Mail Order!
Save time and time! Let our expert Fieldmen select your bred sows, at your price . . . a free service . . . satisfaction guaranteed. Write for details.

Let this VALUABLE BOOK Show you the Profits in
HOLSTEINS

● Yes, let this book show you—show you why right across the country the trend is to Holsteins. It's a trend that will continue, too, because everywhere progressive dairymen are seeing that Holsteins are the economical—the profitable breed. And here are the reasons:

HOLSTEINS PRODUCE MORE....AT LOWER COST
It's being proved day after day that Holsteins give you more milk — more butterfat — longer productive life — better utilization of home-grown feeds — lower production costs — husky calves. And to top it off, Holsteins will show you a profit wherever you are because they are readily adaptable to any and all climatic conditions.

52 Pages • Beautifully Illustrated • Only 25c
Whether you've owned Holsteins or not, you'll find real interest in "The Holstein Handbook." It tells the full story of pleasure and profit to be obtained with Holsteins — and especially with registered Holsteins. It's a book you'll appreciate — it's yours for only 25c (coin or stamps). Use the coupon below today.

HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA
Box 115 Brattleboro, Vermont
Enclosed is 25c (coin or stamps). Send me "The Holstein Handbook."
Name _____
Street or RFD _____
Post Office _____ State _____

COONHOUNDS

For Sale—Dogs of the Hunting Breeds—Coon, Opossum, Mink, Squirrel, Fox, Rabbit. Also Coon Dog Field Trial prospects. Ten days trial. Write for full information and literature. Prices reasonable. J. N. Ryan Kennel, Murray, Ky.

For Sale—Straight Cooners, Combination tree hounds, Birddogs, High-class Foxhounds, Rabbit dogs and Beagles a specialty. Prices reasonable. Free literature and pictures. Raccoon Mountain Kennels, Box 268, Albertville, Alabama. Dutes Thomas, Owner.

For Sale—Coonhounds. Foxhounds, Rabbithounds, Combination hunters, Blacktans, Redbones, Bluticks, Spotted; reasonable. Trial allowed. Literature free. Wildwood Kennels, Herrick, Illinois.

Hunting Hounds. Bluticks, Redbones, Blacks, Tans, Spotted, Foxhounds, Coonhounds, Combination Hunters. Reasonable. Trial Pictures. Beck Hound Kennels, J-20, Herrick, Illinois.

For Sale: Coon and Combination Hunters, Foxhounds, Rabbithounds, Beaglehounds and Bird-Dogs. Cheap. Trial. Literature free. Dixie Kennels, Herrick, Illinois.

Hunting Hounds: Coonhounds. Combination Hunters, Foxhounds, Beagles, Bluticks, Redbones, Blacktans, Reasonable. Trial. Pictures. List free. Echo Valley Kennels, Herrick, Illinois.

For Sale: Coonhounds, Combination Hunters, Foxhounds, Rabbit Hounds, and Beagles. Free Literature. Trial allowed. References. Mid-West Hound Kennels, Ramsey, Illinois.

Hunters: we offer coon, combination hounds, fox, squirrel and rabbit hounds. Trial allowed. Information free. Hillside Kennels, Sesser 9, Illinois.

BEES AND BEE SUPPLIES

Bees. Good Side Line, pleasure, profit, pollination. Send $1.00 for book, First Lessons in Beekeeping, and live seasonal instruction bulletins. Free literature. American Bee Journal, Box M2, Hamilton, Illinois.

RABBITS

Increase Your Income by raising domestic rabbits. Small space needed. Ready market for delicious meat, fur and wool. Largest magazine in the industry tells you how. $1.50 per year. Sample 15 cents. No stamps. Small Stock Magazine, Lamoni 30, Iowa.

$250.00 Monthly. Raising Angora Rabbits. Wool brings top prices. Plenty markets. Steady cash income. Particulars free. White's Rabbitry, Newark, Ohio.

$3000 Yearly raising Angora rabbits. Finest pedigreed and registered Angora breeding stock for sale. Circular free. Vaughn's Rabbitry, Otley, Iowa.

Angoras. Giant Chinchillas, White Giants ...World's most profitable rabbits. Finest pedigree, heavy-producing prize-winners. Literature free. Grinsteads, Edwardsville, Illinois.

Raise Chinchilla rabbits. Year-round money-makers from furs, meat, breeders. Experience unnecessary. Write today. Willow Farm, Sellersville 9, Pa.

Double Your Income Raising Angoras in your back yard. Markets furnished. Literature Free. Associated Breeders, 610 Marshall, St. Paul 2, Minn.

Rabbits for tasty food and Profit. Write for information and free Booklet. Dr. Frank Baddour, Lebanon 10, Tenn.

SALESMEN WANTED

Want Pleasant Outdoor Work in a business of your own? Good profits selling over 200 widely advertised Rawleigh home farm necessities. Pays better than most occupations. Hundreds in business 5 to 20 years or more! Products-equipment on credit. No experience needed to start ... we help you. Write today for full particulars. Rawleigh's, Dept A-145-SHW, Freeport, Ill.

Quick Easy Way to big profits—Marvelous new mop holds 20 times its weight in water—Hands never touch water—Sells on sight—Price $2.85 postpaid—Free particulars. Cell-U-Mop Co., Dept. SF, Freeport, Ill.

TURKEYS

Order your 1949 poults now from one of our midwest's largest producers of 100% pure Wagon-Wheel Broadbreast Bronze, Domes and Chaumlere White Hollands and U.S.D.A. Small Whites. 30,000 weekly from our U. S. Approved-Pullorum Controlled hatchery. Get poults high in livability and profit-making ability. Write for special Turkey Catalog. Central Farms Hatchery, Box S-11, Zeeland, Michigan.

Kirby's Poults hatched from Ohio U. S. Approved Pullorum Passed Stock. Featuring Broad Breasted Bronze, White Hollands. Excellent Quality. Rich in "Rivervene" Strain. Make this your most profitable year with "Kirby's Poults". Write for Free Turkey Catalogue Today. Kirby Hatcheries, Box 97, Urbana, Ohio.

Raise Turkeys the New Way. Write for free information explaining how to make up to $3,000.00 in your own backyard. Address National Turkey Institute, Dept. A, Columbus, Kansas.

Stromberg Broad Breasted and Beltsville White sturdy poults. High quality. Pullorum tested breeders. Colored Circular Free. Stromberg Hatchery, Fort Dodge 3, Iowa.

TRACTOR—AUTO PARTS

New And Used Parts for cars and trucks. Largest stock in America. Parts for all Army trucks 4x4, 4x2, 6x4, 6x6, reconnaissance cars and jeeps. All items guaranteed. Fast mail order service. Pioneer Auto Wrecking Company, 733 W. 13th Ave., Denver, Colorado.

Auto Parts for all autos and trucks. Trans., motors, differentials, fenders, carburetors. Also Body Parts. Security Auto and Truck Parts, 1923—SF Grace, Chicago 13.

New and Used Tractor Parts. Write for big, free 1949 catalogue, tremendous savings. Satisfaction guaranteed. Central Tractor Wrecking Co., Des Moines 3, Iowa.

Tractor Parts. New and Used. All Makes and Models. Write for Free 1949 Catalog. Burlington Tractor Wrecking Co., Burlington, Iowa.

Fordson Parts—Complete Line 1917 to 1939. Wholesale and Retail. Schnell Tractor Sales, 9709 Gravois Blvd., St. Louis 23, Mo.

FOR FARM WOMEN

For Making Rugs—Wool Blanket Ends and Trimmings, 60c pound, 25 pounds or over. Less than 25 pounds, 50c pound. Ten colors. Material cut into 1½ inch, one inch, ¾" or ¼" strips, 10c pound extra. Samples free. Bloomfield Woolen Co., Dept. 302, Bloomfield, Indiana.

Yarns—Free samples, directions. All wool 2-3-4 ply Knitting Yarn. Rug Yarns. Unequalled quality. Lowest prices. Bartlett Yarn Mills, Box K, Harmony, Me.

Make Up To $30-$40 Week as a Trained Practical Nurse! Learn quickly at home. Booklet free. Chicago School of Nursing, Dept. F-12, Chicago.

"Famous" Buttonhole Attachments; For all sewing machines. $10.50. Pinking shears $4.95. Postpaid. Circulars Free. De-Mac Sales Company, Fort Smith, Arkansas.

Free Knitting Yarn Samples—Selected all-wool yarns at direct-to-you low prices. Write for free samples. Friendship House, Dept. 143, Winchester, Mass.

At Last! A stocking mender that reknits runs without thread. $1.00—with illustrated directions. Run-Mender Co., Pewaukee 2, Wis.

500 Colorful Quilt Pieces $1.00. Postpaid! 1100-$1.98, 100-25c. Prints, percales. Free patterns. G. Bonar, Box 134-D, Highland, Ohio.

500 Colorful Cotton Quilt Pieces $1.00 100, 25c. Cotton strips for rugs, 3 pounds $1.25. Postpaid. S. Crittenden, Lombard, Ill.

The World's Best Texas Oranges and Grapefruit. Write for free literature and prices. Texas Grande Price Citrus Fruit Co., 1219 N. 16, McAllen, Texas.

---

67 BREEDS Baby Chicks, Eggs. Crossbreds, Ducks, Geese, Turkeys, Bantams. All rare and common varieties. Free handbook, illustrated catalogue, colored pictures. Low prices. Murray McMurray, Box B12, Webster City, Iowa

Stromberg WINTER LAYERS
DARK CORNISH, Brookins strain, Hatches weekly. Big, husky, THRIFTY specimens in **Large Type, Pedigreed Sired WHITE LEGHORNS** and **High Production WHITE ROCKS.** 26 leading varieties of chicks. Also STARTED CHICKS & Brooders. FREE CATALOG. Stromberg Hatchery, Dept. ID, Ft. Dodge, Iowa

DUCKLINGS AND CHICKS Also TURKEY POULTS. Fine breeding. Illustrated Catalog tells how to raise ducks for PROFIT. Sent free. THE MIDGWAY DUCK HATCHERY, Box 60, LaRue, Ohio

Free Book MOUNT BIRDS, ANIMALS, FISH — MAIL Postal Today
Yes FREE. Explains Taxidermy. Tells how to learn at home by mail to mount birds, animals, heads, to TAN skins and furs. Great for MEN and BOYS. Fun! Also earn money in spare time. WRITE TODAY—NOW—for free book containing 100 game pictures. State AGE.
N.W. School of Taxidermy, Dept. S301 Omaha, Neb.

CROSSBREEDS Cornish-X-Hampshires; Cornish-X-Rocks; Austra-X-Whites; Wyandotte-X-Rocks; Hampshire-X-Rocks; Minorca-X-Leghorns, etc. Hybrid vigor and productiveness. Produce fancy market eggs and broilers. Pullorum controlled, U. S. Approved. CATALOG FREE. STANDARD HATCHERIES, Box 818A, Decatur, Ill.

AJAX LIGHT BRAHMAS WONDERLAY STRAIN Egg-show winners. Gigantic size. Quick growing. Heavy layers. Exceptional capons. Illinois U. S. Approved Pullorum Controlled. Thousands hatching weekly. Low farm prices. Catalog FREE. Write TODAY. AJAX HATCHERY, BOX 54, QUINCY, ILLINOIS

70 BREEDS Chickens, geese, ducks, turkeys, guineas. Hardy pure-bred and most profitable. Higher quality baby chicks, eggs and stock. LOW PRICES. America's Finest Poultrymen — In business since 1893. Beautiful Catalog Free. Write Now. R. F. NEUBERT Co., Box 26, MANKATO, MINN.

COAST-TO-COAST HYBRID SENSATION

Up to 74% More Cash For Your GRAIN or FEED with

Originators & World's Largest Producers of

BERRY'S AUSTRA-WHITES

DAY-OLD or STARTED PULLETS & MEAT COCKERELS

MAKE THE MOST IN PROFITS out of the poultry shortage! Now is the time to feed home grains. With Berry's Austra-Whites, many farmers are cashing in grain and feed for MORE MONEY from earlier and more MEAT AND EGGS! In a 13-year Iowa test, every $1 worth of feed used returned $1.74. With Berry's STARTED PULLETS, sell eggs a month earlier, save time, labor, expense, loss.

Low As $22.90 Per 100 CKLS.

TOMORROW'S CHICKEN TODAY

PHENOMENAL MONEY-MAKERS

H. Wirtz, Penna.: "I can make a good living on my Austra-Whites alone." Mr. Carlson, Nebr., "We get $3 a case more than our neighbor." Mrs. C. Hooper, Tenn., "Am offered 20c a dozen above market." Mrs. I. Amundsen, Iowa, "In spite of high feed costs, I've realized a very nice profit."

YEAR-AROUND LAYERS

"In our 8 years raising Berry's Austra-Whites, we've always made a good profit. 611 Berry's pullets averaged 9 cases of eggs a week year around. We've raised thousands—they outgrow—outlay—outprofit any other kinds we've raised." — Mrs. Wallace Gard, Kansas.

RUGGED AS A MULE
1. Grow extra fast. 2. Resist disease. 3. Mature extra early. 4. Extra thrifty. 5. Turn feed into more meat and eggs. 6. Live extra good.
FROM 2 WORLD'S CHAMPION BREEDS

FREE BOOK Shows why thousands of farmers have switched to this high-return hybrid.

12 POPULAR HYBRIDS and PUREBREEDS hatching weekly at low farm prices. Day-old or started, sexed or as hatched. By AIR or RAIL anywhere in U. S. Write for Free Book.

BROILER RAISERS
INVESTIGATE what broiler growers who've used up to 3,000 a week say about Berry's Austra-Whites. Mr. and Mrs. L. Dietzel: "Buyers pay top prices for Berry's Austra-Whites. We have already bought over 70,000."

PLUMP BROILERS

WARNING! For Your Protection
—Berry's Austra-Whites are positively not INBRED. They are not to be confused with so-called inbred hybrids. They are first generation crosses of two production-bred purebreeds—Black Australorps and White Leghorns.

WANTED A Chicken Raiser in Every Community to Prove That Berry's ORIGINAL Austra-White HYBRIDS Will Make BIG PROFITS.

WRITE CARD or LETTER to EITHER ADDRESS

GEORGE BERRY, 1111 BERRY ROAD, QUINCY, ILLINOIS

ERNEST BERRY, 1111 BERRY ROAD, NEWTON, KANSAS

RAISE CHICKS on BERRY'S PROFIT-SHARING PLAN — MAIL CARD FOR FREE INFORMATION

1¢ CHICK SALE
100 Riffle's I. Q. (Inherited Quality) broiler chicks only $1 with 200 our Top Grade Chicks. Popular and rare breeds. Pullets, Cornish-Hamps, Austra-Whites, Leg-Hamps, etc. Low prices. Catalog Free. CROSS & RARE BREEDS TOO
RIFFLE'S CHICKS, Box 641, Shenandoah, Iowa

HALL BROTHERS
New Baby Chick CATALOG FREE
Send for your copy today. It will help you make money with poultry.
Hall Brothers Hatchery, Inc., Box 24, Wallingford, Conn.

25 EXTRA CHICKS 1¢
25 extra chicks 1¢ with each 100 of our Group 3 chicks. 10 extra chicks 1¢ with Group 2 chicks. Guaranteed big strong chicks from supervised blood-tested flocks. Winning monthly in egg-laying contests. Over 100,000 satisfied customers. We pay postage if cash in full is sent with order. You pay postage on C. O. D. orders. Prices subject to change without notice. 95% sex accuracy guaranteed.

Group 1	Str. Match	Males	Pullets
Austra Whites Minorca-Leghorns	$12.90	$4.90	$25.80
White Leghorns	$11.90	$2.90	$23.80
N. H. Reds, Barred, White, Buff Rocks, Wh. Wyandottes, S. C. Reds	$11.90	$11.90	$13.90
Mixed Heavies	$7.90	$7.90	$9.90
Mixed Heavies No Sex Guarantee, 100	6.90	Light Breed Males for Broilers, 100	3.90

Group 2—2¢ higher—10 extra chicks 1¢ with each 100
Group 3—3¢ higher—25 extra chicks 1¢ with each 100

SCOTT HAYES CHICKS, Dept. 259, Omaha, Nebr.

FARMS—REAL ESTATE

Highway Modern Home — town-edge 60-acre Ozark farm on blacktop state highway, within walking distance school, church, store, bus to high school, mail delivered, sturdy 3-bedroom modern house, sacrificed by widow at only $6,500 (m phone, electric lines. 30 acres cultivated, 12-acre meadow, 7 timber, pasture watered by wells with windmill, family orchard contains 31 assorted trees, about 50 walnuts, few grapevines. 6-room electric-lighted house, drilled well, built-in in kitchen, 30-ft. porch, good shade, 20x28 barn, good 40-ft. hen house, 3 good brooder houses, smoke-house, garage. owner gives possession in month, a good buy at $6,500, $3,000 down. Read full details page 4 big free Winter catalog many states. United Farm Agency, 428-SF, BMA Bldg., Kansas City 8, Mo.

Farm. Profit. Live in sun-blessed Marion County, Florida! High rolling land, plentifully supplied with water and limestone and phosphate subsoil, makes Marion County, home of many famous purebred herds, ideal for stock raising. Also dairying, citrus groves, truck, poultry and general farming. Reasonable taxes, $5000 homestead exemption. Wonderful hunting and fishing in heart of Florida's region of great natural wonders. Friendly people. Write S. F. Goforth, Marion County Chamber of Commerce, Ocala, Fla.

Canada Lands—Free Information. Plenty of good land that is still cheap. Take advantage now. Canadian National Railways, Dept. N, 335 Robert Street, St. Paul, Minnesota.

100 Wisconsin Dairy Farm Bargains. Beautiful lake region. $37.50 to $75.00 per acre. Easy terms. Baker AA1, St. Croix Falls, Wis.

Princely Wheat and Cattle Ranch. 825,000 takes 1920 acres famed Kindersley, Sask., Canada, wheat and pasture land. Buildings, soil, cultivation, among the best. Will stand closest investigation. Aged owner anxious convert his estate to cash. This is a snap. Bell, Mitchell & Boyd, Limited, 302 Westman Chambers, Regina, Sask.

Big Lists Farms. Ranches, Water Fronts, Properties. Free descriptive folders, prices. Splendid opportunities, Washington, Idaho, Montana, Dakotas, Upper Michigan, Wisconsin, Central Corn Belt. Information regarding Columbia and Missouri River Basin irrigation projects. L. H. Robbins, Milwaukee Railroad, 7366 Union Station, Chicago 6, Illinois.

Northwest Lands Are Still Cheap—Hedge against Inflation. Plan a home in Washington, Oregon, Idaho, Montana, the Dakotas, or Minnesota. For details write: E. H. Duncan, Dept. 129, Great Northern Railway, St. Paul 1, Minnesota. Ask for new Columbia Basin (Washington) map folder.

Good Farms Ranches. Washington, Minnesota, Montana, Idaho, Oregon, North Dakota. Dependable crops, favorable climate. Write for literature, lists describing typical farm opportunities. Specify which state. J. W. Haw, 11 Northern Pacific Railway, St. Paul 1, Minnesota.

Strout's Fall-Winter Farm Catalog—Free! Red cover. Chock-full of bargains Coast-to-Coast. Tilled & unwilled farms, groves, retirement places, etc., etc. Write today for your Free copy. Strout Realty, 255-WF 4th Ave., New York 10, N. Y., 20 W. 9th St., Kansas City 6, Mo., 453 S. Spring, Los Angeles 13, Calif.

FARM EQUIPMENT

Why feed Sparrows? (Proven disease carriers). Build scientific, food proof, humane traps (No cones). Also factory built traps available. Literature Free. Satisfaction Guaranteed. Write today. Richwood Box Mill, 305 Detroit Lakes, Minnesota.

For the Milk House: Water heaters. Hold All Can and Utensil Racks, washing and sterilizing tanks, stainless steel and zinc lined. Roy L. Meyers Mfg. Co., Janesville, Wisconsin.

Spike Tooth Drag Harrows—world's best, most popular, lowest priced all steel lever and flexible styles. Many sizes. Immediate shipments. Folders, prices, write The "Wettschuracks", Montmorenci, Indiana.

Chains—Tractor, Truck, Road Grader, Bus. Write for circular, give tire sizes—Prompt Shipment. Horner Tractor Sales, Geneva, Ohio.

Concrete Blockmaker—Daily capacity 100 blocks. Complete equipment $19.95. Write Jack-sun Manufacturing, Dept. SF, 1300 East 59th, Kansas City, Missouri.

Don't Feed Sparrows. Make your own trap that will catch thousands. Write for details. Roy Vail, LeGrange 1, Indiana.

Free Barn Plan Book. Best ways to build or remodel your farm buildings. Send for details. Louden, Box SF-140, Fairfield, Iowa.

New Government Surplus 200 ampere 28 volt DC generator. Use for electric welding. $33.50. Free information. Lewis Short, Burrton, Kansas

Welder! New Portable Champion Special Transformer Welder. 110-120 volts AC develops to 75 amps. 9 heat stages. Welds, brazes, solders, cuts all metals. Easy to use. Simple instructions. Special Flame Weld Torch Free. Splendid for Farm, Shop, Home repairs. Saves hundreds of dollars yearly. Only $27.50. Also heavier models. 60 Day Free Trial. Magic Welder Co., 239 RS Canal St., New York, N.Y.

Farm Telephones. New model, handset wall telephones for rural lines—prompt delivery by parcel post. Write: Farm Telephone, Dept. 2308, Rogers Park Station, Chicago 26, Illinois.

Welding Generators, 150 amp. $47.50, ½ Horse, 1750 RPM motors $19.75, ¾ Horse, 3450 RPM $22.50. 1 Horse $28.50. Compressors $17.50. Butler, 1885 Milwaukee, Chicago.

Windmills . . . famous Currie, direct from factory, $37 up. Guaranteed 5 years. Free literature. Write Currie Windmill, Box 543, Salina, Kansas.

Grain Blowers and Auger Elevators! Immediate shipment. Save backbreaking scooping. Get particulars and price today! Link Mfg. Co., Fargo, North Dakota.

Attention Forage Harvester Owners: Get our prices and particulars on the Boomer Wagon Unloader. Boomer Silo Co., Harbor Beach, Mich.

Free Catalog—Motors, Welders, Welding Supplies, Generators, Home Freezers, Rotary Snow Plows, many other electrical bargains. LeJay Company, Minneapolis, Minnesota.

---

4 WK. OLD AUSTRA-WHITE PULLETS

Better and Cheaper Than You Can Afford To Raise Them. **Produced from pedigreed strains 225-356 Egg Records.** Sensational profit making chicken of the century. U. S. Approved—Pullorum Tested. Year around layers — Rugged vitality stock.

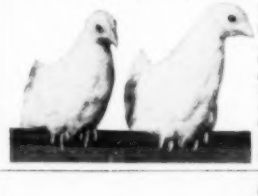
LOW AS $32.90 PER 100

Investigate these new Hybrid Money Makers. Write for FREE POULTRY BOOK and low prices.

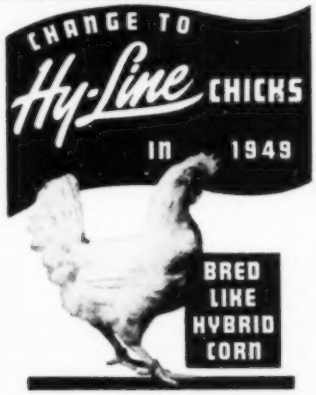
DAY-OLD ROOSTERS LOW AS $3.90 PER 100

MACOMB POULTRY FARM
BOX 145 MACOMB, ILLINOIS

Roosting Age CHICKENS *Cheaper than you can Raise Them from Babies.*



How would you like to **throw away brooding equipment** . . . get away from brooding worries, work and losses . . . Save starting feed . . . have healthy, hand selected beauties that mature fast, lay early? **Roosting Age** Chickens or **Squab Age** pullets (also Jr. Range Size) in **light or heavy breeds** are in big demand for quicker profits. Write today for **free pictures,** low prices and choice of breeds. Get early order discounts. **Ruckers Imperial Breeding Farms, Dept. 146, Ottumwa, Iowa. Dept. 246, Sidney, Ohio. Dept. 346, Bethany, Mo.**



YEARLY FLOCK AVERAGES OF 200 EGGS PER BIRD ARE COMMON with *Hy-Line* Pullets

Get Hy-Line Chicks in 1949. Raise pullets that produce at a high rate under farm conditions. Hy-Lines generally lay 2 to 6 dozen *more* eggs per bird per year than ordinary chickens. Hy-Lines laid 66 *more* eggs per year than standard breeds in official laying tests conducted by Illinois Department of Agriculture. We welcome your most searching investigation.

SEND FOR HY-LINE CHICK CATALOG

Learn what the Hy-Line research program has done to assure increased egg production.

HY-LINE POULTRY FARMS
A Department of Pioneer Hi-Bred Corn Co.
115 Eleventh St., Des Moines 9, Iowa

RICE'S *Day Old* White Leghorn **PULLETS** $25.00 per 100 F.O.B. SEDALIA, MO.

RICE'S *6 Week Old* White Leghorn **PULLETS** $55.00 per 100 F.O.B. SEDALIA, MO.

RICE'S *Day Old* Straight Run (Un-sexed) White Leghorns $14.00 per 100 F.O.B. SEDALIA, MO.

Special Early Order DISCOUNTS

We realize that the demand for our White Leghorns is going to be tremendous this year. In order to facilitate the handling of your orders we are making a bid for your order early.

If you do this we are giving you some very special early order discounts. On all orders for Baby Pullets or Six Week Old Pullets where 50% of the purchase price accompanies the order and the order is mailed before January 15, 1949, we will give you a full 10% discount.

Okee L. Rice

If your order with a deposit of 50% of the total amount of the order is mailed to us before February 15, 1949, we will give you a 5% discount on the total amount of the order.

We will ship the chicks if you so desire—COD for the balance.

DAY OLDS... AVAILABLE FOR DELIVERY DEC. 1, 1948 and after
6 WK. OLDS. AVAILABLE FOR DELIVERY JAN. 15, 1949 and after

ORDER DIRECT FROM THIS AD
Or Write For Illustrated Booklet

All Started Pullets Shipped in Wooden Crates at Lowest Express Rates

"NEWCASTLE CONTROLLED"

All our 6 Week Old Leghorn Pullets have built up an immunity to Newcastle Disease through a sound vaccination program. In our opinion, they do not have Newcastle and they will not contract Newcastle in shipping.

MISSOURI U. S. APPROVED PULLORUM CONTROLLED HATCHERY

Rice LEGHORN FARM INC.

BOX 941 Sedalia, Missouri

Farmer's Trading Center

PATENTS

Inventors: Learn how to protect your invention. Unless the inventor is familiar with patent matters, he should engage a competent registered patent attorney or agent to represent him. We are registered to practice before the U. S. Patent Office and prepared to serve you in handling your patent matters. "Patent Guide for the Inventor" containing detailed information concerning patent protection and procedure with "Record of Invention" form will be forwarded to you upon request—without obligation. Clarence A. O'Brien & Harvey Jacobson, Registered Patent Attorneys, 830-A District National Building, Washington, D. C.

Inventors—Patent Laws encourage the development of inventions. The Rules of Practice of the U. S. Patent Office advises—unless an inventor is familiar with such matters—that he employ a competent registered attorney or registered agent, as the value of patents depends largely upon the skillful preparation of the specifications and claims. Write for further particulars as to patent protection and procedure and "Invention Record" form at once. No obligation. McMorrow, Berman & Davidson, Registered Patent Attorneys, 115-X Victor Building, Washington 1, D. C.

Inventors: When you are satisfied that you have invented something of value write me, without obligation, for information as to what steps you should take to secure a Patent. Write Patrick D. Beavers (Formerly Randolph & Beavers) Registered Patent Atty., 950 Columbian Bldg., Washington 1, D. C.

Inventors: Without obligation, write for information explaining the steps you should take to secure a Patent on your invention. John N. Randolph, Registered Patent Attorney, 237 Columbian Bldg., Washington 1, D. C.

Inventor's Guide free on request. Frank Ledermann, Registered Patent Attorney, 154 Nassau St., New York 7, N.Y.

EDUCATION

Make Big Money Fast, learn auto bodies, mechanics, electrical appliance, refrigeration. G I Bill provides subsistence, tuition, tools. Work part time. Stevinson's established 1922. 2006-H. Main, Kansas City, Missouri.

Learn Auctioneering By Mail. Twenty copyrighted lessons and recordings. Sample lesson sent free. Diploma. Nelson Auction School, Renville 4, Minnesota.

EMPLOYMENT

Reliable man with car wanted at once to call on farmers. Wonderful opportunity. $15 to $20 in a day. No experience or capital required. Permanent. Write today. McNess Company, Dept. 145, Freeport, Illinois.

Absolutely Free! Big package actual sample fabrics and style presentation of dresses, lingerie, hosiery, etc. Take orders. Commissions big. Send no money. Melville Co., Dept. 4781, Cincinnati, Ohio.

Free Sample Nylon Stocking if you rush name. Show amazing 52-pattern fit service, take orders, make money. American Mills, Dept. 360, Indianapolis 7, Indiana.

A Dress For You with every 3 you order for yourself and family. Amazing new plan. Everything Free. Harford Frocks, Dept. V-9096, Cincinnati, Ohio.

FERTILIZER

Schrock Natural Hi-Test Phosphate (32-34 - P205). Potash. Super Phosphate. Mixed Fertilizers. Fertilizer Spreaders. Prompt deliveries. Dealerships available in some areas. Schrock Fertilizer Service, Congerville, Illinois.

Rock Phosphate. Cheapest Fertilizer. Increases yield grain, hay crops. Improves quality. Request prices, literature. Robin Jones Phosphate Company, Nashville, Tennessee.

AGENTS WANTED

Start Your Own Business on our capital. Always your own boss. Hundreds average $6,000 to $25,000 annual Sales year after year. We supply stocks, equipment on credit. 200 home necessities. Selling experience unnecessary to start. Wonderful opportunity to own pleasant, profitable business backed by world-wide industry. Write Rawleigh's, Dept. A-U-81HW, Freeport, Ill.

At Last! Something new and sensational in Everyday Cards. Gorgeous satin and velour designs. Get orders fast. Big profits. Imprinted Stationery. Floral Charmettes, Napkins. 25 assortments for all occasions, retail 60c to $1. Samples on approval. Puro Co., 2801 Locust, Dept. 956-A, St. Louis 3, Mo.

New "Sponge" Wall Cleaner. Erases dirt like magic. Wallpaper, painted walls, ceilings. Saves redecorating. Lightning seller. Samples sent on trial.
Kristee 112, Akron, Ohio.

Farmer Agents—Buy minerals at discount and sell neighbors. Free morning proposition. Write Midwest Mineral Company, Greenwood, Indiana.

STOCKMAN'S SUPPLIES

Horn Weights. 80c per pair postpaid. Made in 4 sizes—½ lb., 1 lb., 1½ lb., and 2 lb. Tattoo markers $4.75 postpaid, includes set of numbers, bottle of ink, and full directions. We also carry complete line of ear tags, neck chains, veterinary instruments, supplies, serums, remedies; in fact, everything for the stockman. Write for free catalog.
Breeders Supply Co., Council Bluffs, Iowa.

Abortion And Mastitis. Literature free, government licensed vaccine. Strain 19. Mano-d-Lac, effective for mastitis. Penicillin and DDT circulars. Complete line Farmade products. Low prices. Kansas City Vaccine Co., Dept. K, Stockyards, Kansas City, Mo.

Big money career. Sell guaranteed Nylon uniforms—white, colors. No investment. Highest commissions. Easy, quick sales to waitresses, beauty shops, hotels, nurses, etc. Complete variety fabrics. Exclusive styles. Free Catalog Sales Kit. Upland Uniform, 255 West 28th Street, Dept. D-1, New York.

Make Money Calling On Friends. Show Greeting Card Assortments—Birthday, Get-Well, others. Floral Stationery. Gift Wrappings. Experience unnecessary. Samples on approval. Wallace Brown, 225 Fifth Ave., Dept. D-4, New York 10.

Free Sample! Big profit opportunity with amazing Glow-In-The-Dark House Numbers, Switch Plates, Pictures, Decals, Religious Articles. Represent large manufacturer. Madison Mills, 303 Fourth Avenue, New York 10, N. Y.

Strange "Dry" Window Cleaner. Sells like wild. Replaces messy rags, liquids. Simply glide over glass. Samples sent on trial. Kristee 113, Akron, Ohio.

HUNTERS—TRAPPERS

Fine Furs, Fox Scarfs, from your own skins—rich, stylish and useful; more popular than ever. Red fox, silver fox, mink, raccoon, beaver, every kind of hide and fur skin beautifully tanned and styled to your order. Having your furs beautifully finished by Cownies is Only Way for you to realize their full value. 40 years experience—100% satisfaction guaranteed. Cow, horse, calf hides tanned and made into handsome, warm, durable coats, robes and rugs. Also expert taxidermy. Ship your skins right in, we will acknowledge and send styles, prices, complete information. Cownie Tanning Co., 651 Market Street, Des Moines, Iowa.

Beautiful scarfs, jackets, coats, made from your fox, raccoon, mink, muskrat, etc. raw pelts. Latest style, finest workmanship. Write for free booklet. J. Eugene Trefz, Paris, Illinois.

HILE'S DUCKLINGS AND POULTS
Superior quality Pekin Ducklings and Bronze Turkey Poults at lowest prices. Indian Runner Ducklings. Chicks. Free catalog tells of excellent profits.
Hile Duck Farm Box 5 Carey, Ohio

NABOB CHICKS 67 VARIETIES Chicks, Ducks, Poults
40 Purebreeds and odd breeds. 8 crossbreeds. 14 varieties Turkey poults, ducklings, goslings. BIG ILLUSTRATED CATALOG FREE
NABOB POULTRY CO., Box 5 Gambier, Ohio

NICHOL'S POULTRY BOOK
FREE
Describes our busy farm, breeding methods, scientific production of real money making chicks for 1949 OUR 30th YEAR. We specialize in three great breeds: Trapnested, R. O. P. Sired White Rocks and Leghorns, and Trapnested New Hampshires. Valuable book telling how to make big cash profits mailed FREE. Quotes LOW PRICES on Chicks, Pullets, Started Chicks.
30th YEAR
NICHOL'S POULTRY FARM
BOX 445 MONMOUTH, ILL.

FOY'S BEAUTIFULLY ILLUSTRATED POULTRY BOOK & CHICK MANUAL
Big, colorful book, chock full of interesting and valuable chick raising information. Completely, colorfully illustrated. Lists LOW PRICES on 40 different varieties of chicks. Elaborate PIGEON BOOK also available. Send 5c postage for either. Specify which.
FREE
FRANK FOY, Box 914 CLINTON, IOWA

LARGE WHITE LEGHORNS
ALSO ROCKS, HAMPSHIRES, CROSSBREEDS. U. S. Approved. Delivery, Sexing and Livability Guaranteed. Air Shipments Coast to Coast.
Send for FREE CATALOG TODAY
ORTNER FARMS Clinton, Mo. Box 511

Pullets	Nonsexed
13.90 per 100 Postpaid	9.90 per 100 Postpaid
4 Wks. Started Pullets	Broilers
29.90 per 100 F.O.B.	3.90 per 100 Postpaid

Mrs. Berry's POULTRY BOOK
FREE Gorgeous poultry book, full of pictures and illustrations. 52 purebreeds and 6 Hybrids; all flocks champion-mated, licensed inspected, and B.W.D. Tested. BABY CHICKS or STARTED CHICKS, mature fowls, hatching eggs and remedies, all at LOW PRICES. Finest quality and best service, from THE ORIGINAL BERRY'S FARM. Large, beautiful book Free; stamps appreciated.
BERRY'S POULTRY FARM, Box 112, Clarinda, Iowa

FREE
Big Bargain Catalog FREE. Save up to 3c a chick by ordering early! 200-336 egg bloodlines at LOWEST PRICES. Leghorns, Rocks, Hampshires, Wyandottes, Reds, Austra X Whites and LEGORCAS! As hatched or sexed. Started W. L. pullets. 98% LIVABILITY GUARANTEED! We rebate all loss over 2%, first 2 weeks, best grade chicks.
SUPERIOR HATCHERY, Box 113, Windsor, Mo.

YOURS WITHOUT EXTRA CHARGE
2 Weeks Feed Supply
Combine the best feed you can buy—any kind you prefer—with the world's most popular chicks! Available on early orders for Colonial's Best Egg Grade Chicks. Free Catalog brings details. Write today!
97% LIVABILITY in Official Tests
by State Agencies, Nebr., Iowa, Ohio, Mo., to 2 to 3 weeks of age, under average farm conditions!

COLONIAL World's Largest Chick Producer
Do you want BETTER CHICKS for LESS money? Do you want LAYERS? For 19 straight years more people have chosen Colonial Chicks for PROFIT than any other kind! World leadership in number of chicks produced shows prices and breeding are right!
Your Favorite Breed at Its Best
PEDIGREE SIRED — Records up to 336 Eggs
Hens that set world records and won U. S. Egg Laying Contests have contributed their sensational blood lines to Colonial's breeding program. Colonial's best grade chicks give you a flock enriched with GENERATIONS of up to 336 egg blood.
WRITE FOR CATALOG AND BEST CHICK DEAL in Colonial's History
Our biggest savings yet on started and day-old pullets, chicks as hatched or sexed. Purebreeds or crossbreeds. Write now!
PULLETS LOW AS $13.90 100
FREE
COLONIAL POULTRY FARMS
Write Dept. 716 at nearest address:
Pleasant Hill, Mo.; Wichita, Kans.; Sweetwater, Tex.; Lexington, Nebr.; Lamar, Colo.

RAISE ROSELAWN BIG TYPE LEGHORNS FOR BIGGER MEAT and EGG PROFITS
Large as heavy breeds, these BIG, LOP-COMBED BEAUTIES are backed by 28 years' breeding for every quality you need for top poultry profits—championship livability to cut chick and layer losses; guaranteed egg breeding for more big, white, premium eggs; really BIG LEGHORNS for more meat, fast, uniform growth for quick broilers. Raised once you will raise them always. Hundreds have raised no others for over 15 consecutive years, reporting profits up to $6.00 per bird yearly.
EVERY CHICK IS PEDIGREE SIRED
EVERY BREEDER IS BLOOD TESTED
NO PRICE INCREASE—BIG DISCOUNTS
For the second straight year we hold prices the same. You can buy Roselawn Chicks and started pullets in 1949 for the same as in 1947. ALSO BIG WORTH WHILE EARLY ORDER DISCOUNTS. WRITE TODAY.
FREE CATALOG REDUCED DISCOUNT PRICES Now ready Write Today
ROSELAWN POULTRY FARM
Rural Route 10C Dayton (7) Ohio

FREE
SUPERIOR CHICKS

I would like to send you my PICTURE TOUR BOOK absolutely FREE about one of America's largest and oldest Poultry Farm and Hatchery organizations.
My book is very complete and full of interesting and instructive color pictures. I know you'll enjoy and profit by reading it.
AMAZING POULTRY SECRETS
This book reveals many secrets you should know about profitable chicken raising, and especially HYBRIDS and PURE BREDS. It is ABSOLUTELY FREE. A postcard will bring it.
If you are interested in raising good chickens that make better profits and more pleasure write me TODAY.
MRS. HARRY HAM
ROUTE 45 ATCHISON, KANSAS

Farmer's Trading Center

Advertisements using illustration or display (large) type, $5 per agate line. This classification is open to baby chick, poultry, livestock, pet stock, and schools. Straight classified, (no illustration or display type)—20 word minimum—all classifications—60 cents a word. Write Successful Farming, Des Moines 3, Iowa, for complete information.

POULTRY—CHICKS—DUCKS—EQUIPMENT

67 Rare Varieties Baby Chicks, Eggs, Breeding Stock. Ducks, Geese, Turkeys, Guineas, Chickens, Bantams. Free handsome catalogue, colored pictures showing Lakenvelders; Polish; Hamburgs; Yokohamas; Andalusians; Sussex; White and Black Giants; Dark, White, White Laced Red Cornish; Houdans; Black and White Minorcas; 11 beautiful varieties Wyandottes, Rocks; Black, Buff, White Australorps; Spanish; Buttercups; Anconas; Orpingtons; Rhode Island Reds; New Hampshire Reds, New Hampshire Whites; Brahmas; 10 varieties Crossbreds including Austra-Whites; Giant-Rocks, Cornish-Rocks and other popular crosses; Baby Bantams. Murray McMurray, Box B21, Webster City, Iowa.

Thompson's Minnesota Egg Bred Chicks bring you 200-300 egg pedigree bloodlines at prices you can afford to pay. White Leghorns, Austra Whites, White Rocks, 7 other Money-Making Breeds from select, blood tested flocks, based on outstanding production stock. Day old and started pullets. 100% live delivery guaranteed—losses over 2% in first 14 days replaced. Write for folder, low prices, special offers today. Tilmer Thompson Hatchery, Route 5, Elmore, Minnesota.

For Quality at reasonable prices get Central Farms chicks—sexed or unsexed in these money-making breeds: English type White Leghorns, New Hampshires, Parmenter Reds, White Giants, Barred, White Rocks, Minorca-Leghorns, Danish Brown Leghorns from U.S. Approved-Pullorum Controlled stock; also Broadbreasted Bronze, White Holland and Small White turkey poults; White Pekin Ducklings. Write for Free Catalog. Central Farms Hatchery, Box S-1, Zeeland, Michigan.

Atz's Famous Chix—Are U.S. Approved Pullorum Passed. One Grade only the best. Thousands for immediate delivery. Have your Leghorn Pullets delivered before March 1st and save dollars. 100—$16.95. Our Big English White Leghorns are Superior. Heavy Breeds 100—$14.95. Table Grade 100—$6.95. Heavy Assorted 100—$8.90. C.O.D. shipments plus postage. Write for beautiful colored catalogue. Atz's Mammoth Hatcheries—Box 2—Huntingburg, Indiana.

Coombs Chicks. ROP breeding farm. White Leghorn chicks first cross, two high production ROP Leghorn strains. Hybrid vigor. Farm test flocks averaged 219.7 eggs per bird. Kansas State College strain White Rocks. Fast feathering. Excellent meat chickens. Good all-year layers. Austra-White Chicks. Cross two ROP strains. High speed fall-winter layers. Free circular. Early order discount. Coombs & Son, Box 150, Sedgwick, Kansas.

Raise Early Chicks This Year. Chicks available in all popular breeds and crossbreeds. Low Prices for January and February Delivery. Inquire today. Beautiful 4 color Catalog Free. Write Zeeland Hatchery, Zeeland, Michigan.

Test a trial order of Sunshine Chicks on Approval. Your money back on chicks and feed unless delighted. Pedigree-sired. Details and catalog free. Sunshine Hatcheries, Box 1024, Corydon, Indiana.

Would You Caponize Hens? Yes! Tenderize, fatten, flavorize, caponize—both sexes, any age. Valuable information free. Sine, 866, Quakertown, Pa.

Stromberg Winter Layer Chicks for more profit. Specializing in Large Type White Leghorns and High Egg Production White Rocks sired by Pedigreed males from hens laying 200 to 330 eggs per year. Closely selected—Pullorum tested breeders. Livability Guaranteed. Wyandottes, Orpingtons, Reds, Brahmas, Minorcas, Sussex, Cornish, Hamburgs, Polish, Houdans, Giants, Turkeys, Ducklings. Free Catalog. Stromberg Hatchery, Fort Dodge 3, Iowa.

Look for a Chick Shortage due to lower feed costs, higher egg prices and low poultry population. You should order chicks earlier to quickly produce more eggs with Marti's Specialized Big Type White Leghorns. Pullets—Day Old, 2, 4 and 6 Wks. 10% early order discount. Write for catalog—prices. Marti Leghorn Farms, Box 2-C, Windsor, Mo.

Carney cuts your costs. Large volume of 150,000 chicks per week enables us to furnish not only highest quality chicks but at low prices. Plenty New Hampshires, White, Barred Rocks and Crosses for broilers. Also high productive strains for laying. Write for low prices and early order discounts. Carney Hatchery, Box 15-C, Shelbyville, Ind.

Buy Central Farms White Rock chicks from breeders hatched from Holtzapple flock matings of approved birds. Here is breeding for high production and big eggs that can realize real profits for you. All breeders U. S. Approved-Pullorum Controlled. Free catalog—reasonable prices—early order discount. Central Farms Hatchery, Box S-8, Zeeland, Michigan.

Grain Belt Select Chicks—Famous breeds. 100% bloodtested. Early order discounts. White Leghorns, $11.90; pullets, $19.90; Austra-Whites, $12.90; pullets, $20.90. Also Brown Leghorns; White, Barred, Columbian, Rocks; New Hampshires; Buff Minorcas. Fryer Assorted, $9.90. Broiler Assorted, $7.90. Leftovers, $5.90. 100% live delivery. Started Pullets. Catalog. Grain Belt Hatchery, Box 5, Windsor, Mo.

Greensburg Hatchery in the Heart of Indiana's corn and Poultry belt. Can make immediate shipment of Highest Quality Chicks. U. S. Pullorum Passed. Plenty New Hampshires, White and Barred Rocks for Broilers and Layers. Also many other varieties and crosses. Write for Free Catalog and Early Order Discounts. Greensburg Hatchery, Box 9-C, Greensburg, Ind.

Sensational Value Assorted heavies $6.90-100 postpaid! Strong healthy chicks! No cripples! No culls! Send money order for prompt shipment. Live Delivery guaranteed. Atlas Chick Company, Dept. SF, St. Louis, Mo.

Blue Mound Approved Chicks. Beautiful Buff Orpingtons, White Rocks, Wyandottes, Leghorns, Blue Andalusians, Rosecomb Brown Leghorns, New Hampshires. Write postal for discounts. Atz Hatchery, Milltown, Indiana.

Sensational Value—Assorted Heavies $6.85, Mixed Assorted $6.45, No Cripples, No Culls. Send money order, prompt shipment. 100% alive, FOB. Clinton Chick Store, Clinton, Missouri.

25 Chicks 1c with order for 100. Write, Catalog. Scott Hayes Chicks, Dept. A, Bloomington, Illinois.

Smith's Mother Nature Brooder. Plans and Heater $4.75. Takes place of $60 Brooder house, $10 brooder. Over 225,000 satisfied users. Each unit broods successfully, safely, up to 150 chicks 6 to 8 weeks old on one gallon kerosene weekly. Information free. J. A. Smith Company, Box 5290-A, 2214 Dolman, St. Louis, Missouri.

Lemmen's Large Leghorns—Contest Matings at Regular Prices. High records made in National Contests. Hatches January 5 thru June. 100% Live Delivery. Prepaid Parcel Post or Express. 98% and 100% Sexing Guarantee. Started Stock, all ages. Also heavy breeds. Postcard brings 36 Page Catalog. Lemmen Leghorn Farm, Box 1104S, Holland, Michigan.

Buy Standard Chicks—Leghorns, Austra-Whites for egg profits, Cornish, New Hamps, Rocks and others plus popular crosses for meat. Catalog tells about improved breeding that means extra profits. Write for it and reasonable prices on our Ind., U. S. Approved-Pullorum Controlled Chicks. Standard Hatcheries, Inc., Box 705K, Terre Haute, Indiana.

Superior quality Rhode Island Reds, famous Parmenter strain. Chicks from our U.S. Approved-Pullorum Controlled flocks grow fast, mature early into prolific layers of big, brown eggs. Get set for big profits ahead—order early at our reasonable prices. Catalog Free. Write Central Farms Hatchery, Box S-4, Zeeland, Michigan.

Bush's Bloodtested Barred, White Rocks, Reds, Wyandottes, Hampshires, $8.95; pullets, $14.95; cockerels, $10.95; White Leghorns, Austrawhites, $8.95; pullets, $14.95; Heavy Assorted, $8.45; mixed, $7.95; Leftovers, $6.95; Barnyard Special $5.95; Table Assorted, $4.95. FOB. 100% alive. Catalog. Other breeds, grades, prices. Bush Hatchery, Clinton, Missouri.

Chapman's Large Type White Leghorns, Austra-Whites, $11.40; Pullets, $18.90; White, Barred Rocks, Reds, $11.40; Pullets, $14.90; Black Australorps, $13.90; Pullets, $15.90. Heavy Cockerels, $10.40; Austra-White Cockerels, $5.90. Surplus Cockerels, $3.90. Heavy Assorted, $9.40. Bloodtested, 95% Sexing. 100% Arrival. Chapman Poultry Farm, Calhoun, Missouri.

Thompson—Quality, bloodtested White, Barred Rocks, Reds, Wyandottes, Hampshires, $8.95; pullets $12.95; cockerels, $9.95; Anconas, Minorcas, White, Brown Leghorns, Austra-Whites, $8.95; pullets, $14.95; Assorted Heavies, $7.95; Mixed Assorted, $6.95; Leftovers, $5.95; Barnyard Special, $4.95. 100% alive FOB. Thompson Chicks, Springfield, Missouri.

Sheppard's "Famous" Anconas. First at world's greatest shows twenty years. Champion layers, large eggs. Reduced prices. Catalog free. Cecil Sheppard, Berea, Ohio.

Sad wormy Poultry? Dr. Hinrichs' Tonic Poultry Powder. Fed in feed. Reliable. 5 lbs., $3 postpaid. Hinrichs Remedy Co., Walcott, Iowa.

Raise Fryers new easy way. One Man home plant earns $500 monthly. Details Free. Fortune Fryer Farm, Box 24, Simi, California.

Excellent quality Surplus Assorted Chicks, $4.95 per 100. Fryers $6.95. No color, Variety or Sex Guarantee. Stromberg Hatchery, Fort Dodge 3, Iowa.

Davis "Pullorum Passed" chicks for Broilers and Layers. New Hampshires and other broiler breeds for immediate delivery in large or small quantities. Write today for catalog and Big savings on early booked orders. Davis Poultry Farm & Hatchery, Rt. 18-C, Ramsey, Ind.

Increase Your Poultry Income—thorough knowledge means greater success. Our interesting, practical, home study course has trained thousands during past 28 years. Don't delay—write today for free booklet describing courses, methods, opportunities. National Poultry Institute, Dept. 64, Adams Center, N. Y.

Seymour Chicks for 1949 Poultry Profits. U. S. Pullorum Passed. For immediate delivery. Highest Quality at very reasonable prices. Write today for big discounts on all orders placed now for immediate or future delivery. Seymour Electric Hatchery, Box 44-C, Seymour, Ind.

4 and 6 weeks old White Leghorn Pullets. Healthy vigorous chicks that have proven their ability to live. We will tell you just what your chicks will cost delivered to you. Get this information today. Economy Hatchery, Warrensburg, Missouri.

Pekin ducklings, extra large, superior quality. Proved money makers for hundreds of customers. 12—$3.75; 25—$7.50; 50—$14.50; 100—$28.00. Cash in on bright prospects for next season for duck raisers. Central Farms Hatchery, Box S-6, Zeeland, Michigan.

White Rocks my Specialty for 15 years. Improvement with ROP, and Pedigreed Stock. All chicks from Pullorum Passed flocks. Also many other breeds. Write for Free catalog and big early order discounts. Salem Hatchery, Box 6, Salem, Ind.

Dubois County Chicks. U. S. Pullorum Passed for immediate delivery. New Hampshires our Specialty. Also plenty other broiler breeds and laying strains. Write today for our low prices and quick shipping date. Dubois County Hatchery, Box 910-C, Huntingburg, Ind.

75,000 Jackson County U. S. Pullorum Passed Chicks weekly. 15 Varieties, also Cornish Hampshires and Rock Red Crosses for Broilers. Write for catalog and early order discounts. Can make immediate shipment. Jackson County Hatchery, Box 13-C, Seymour, Ind.

Schlichtman's U.S. Approved, pullorum controlled chicks, per 100 prepaid. Leghorns, Rocks, Reds, Wyandottes, Austra Whites, $12.90. Assorted $4.95. Pedigree sired and sexed chicks. Free catalog explaining two week replacement guarantee. Schlichtman Hatchery, Appleton City, Mo.

Pay Less For Chicks! U. S. Pullorum controlled. Flocks supervised by APA Judge. Leading and rare breeds. Sexed and hybrid chicks. Quick service. Catalog free. Zollicker's Hatchery, Box 14, Harrisonville, Mo.

Stouffer's Famous Chicks Pullorum controlled. Barred, White Rocks, Austra-Whites, White Leghorns, New Hampshires, Giants. Catalog free. Immediate delivery. Stouffer's Hatchery, Lena, Illinois.

Cornish-Rock crossbred chicks make sensational broilers or roasters. Buy from crossbreeding specialists. Folder. Garrison, 19N E. Commerce, Bridgeton, N. J.

DUCKS—GEESE—TURKEYS Make Money raising them. Write for special low price list of my 17 mammoth purebred varieties. Satisfaction Guaranteed.
Murray McMurray, Box A11, Webster City, Iowa

RARE BREEDS

Cornish, Light Brahmas, Silver Laced Wyandottes, Sussex, and other rare breeds. From breeders who have spent a lifetime on these breeds only. Crossbreeds, too, Cornish-X-Hampshires; Cornish-X-Rocks, etc. CATALOG FREE. STANDARD HATCHERIES, Box 718A, Decatur, Ill.

Kircher's Buff Minorcas

The Egg-Class Chicken that lays lots of big, white eggs—but weighs like the heavier breeds. Thousands of farmers are changing to this rare money-making new breed. Raise a flock and sell eggs, chicks, stock at fancy prices. Write now for information, early order discounts, prices.
OTTO C. KIRCHER, Box 110, BUTLER, MO.

25 EXTRA CHICKS 1¢

25 extra chicks 1¢ with each 100 of our Group 3 chicks. 10 extra chicks 1¢ with Group 2 chicks. Guaranteed big strong chicks from supervised blood-tested flocks. Winning monthly in egg-laying contests. Over 100,000 satisfied customers. We pay postage if cash in full is sent with order. You pay postage on C. O. D. orders. Prices subject to change without notice. 95% sex accuracy guaranteed.

Group 1	Str. Hatch	Males	Pullets
Austra Whites Minorca-Leghorns	$12.90	$4.90	$25.80
White Leghorns	$11.90	$2.90	$23.80
N. H. Reds, Barred, White, Buff Rocks; Wh. Wyandottes, S. C. Reds	$11.90	$11.90	$13.90
Mixed Heavies	$7.90	$7.90	$9.90
Mixed Heavies No Sex Guarantee, 100	6.90	Light Breed Males for Broilers, 100	3.90

Group 2—2¢ higher—10 extra chicks 1¢ with each 100
Group 3—5¢ higher—25 extra chicks 1¢ with each 100

SCOTT HAYES CHICKS
Dept. 259 **Minneapolis, Minn.**

CHICKS on NO-RISK

30-DAY TRIAL GUARANTEE. Money refunded on any chicks not true to breed. No need to take chances. 30 days to make sure chicks are as represented. Pullets or males. Low prices. All varieties. Easy buying plan. Chick Manual Free.
MISSOURI STATE HATCHERY, Box 107, Butler, Mo.

PURE BRED CHICKS

There are profits in Silver Ward Chicks, U.S. Approved-Pullorum Controlled. Breeding stock culled for size and vigor. English Type and Hanson White Leghorns; other leading breeds and cross breeds; Turkeys, Ducklings. Sexed chicks. COD shipments. FREE CATALOG, reasonable prices, early order discounts. Order now for prompt delivery.
SILVER WARD HATCHERY Box 31 ZEELAND, MICHIGAN

Have Hens from WORLD'S RECORD LAYERS
RIGHT ON YOUR OWN FARM *with* BOOTH CHICKS

ROYAL BOOTH, Founder

28 years continuous trapnesting on our large breeding farm has earned Booth Laying Strains a National Reputation for Top Profit Qualities. NO OTHER BREEDER CAN EQUAL THIS RECORD . . . For 5 years Booth Layers made highest average production in all U. S. Laying Contests for any breeder of Leghorns, Reds and Rocks . . . including 3 World's records. So for Extra Eggs and More Profits Tomorrow Start with Booth Chicks Today.

Thousands Pedigreed Production Mates

The same intensive breeding that produced our 4 Champion Hens shown at the left produced the thousands of Wingbanded, Pedigreed Males we are using in our 1949 Matings. Many of these Males have several generations of 300-352 egg records in their pedigrees. A great majority of our 1949 chicks will have the blood of one or more of the great egg Champions we have produced in the past.

For 15 Years Over 10,000 Poultry Raisers Re-Order BOOTH CHICKS Yearly

These poultry raisers know from experience that Booth Farms is ONE place where year after year they can get chicks they can depend upon. They report flock averages of over 250 eggs and profits up to $300 a month.

FREE 4 Color Catalog

In natural colors with over 100 photos of our Farm and Champion Hens. Gives full prices, guarantees and Liberal Discounts. Write today for yours.

Only 6 Purebred Production Breeds

Get Extra Eggs and Greater Profits with chicks from our Top Profit High Production Strains of Wh. Leghorns, White and Barred Rocks, R. I. Reds, New Hampshires and Wh. Wyandottes.

3 Matings $6.90 to $13.90

ALSO SEXED CHICKS

Write Today. BIG DISCOUNTS on Advance Orders

BOOTH FARMS, Box 718-A, CLINTON, MO.

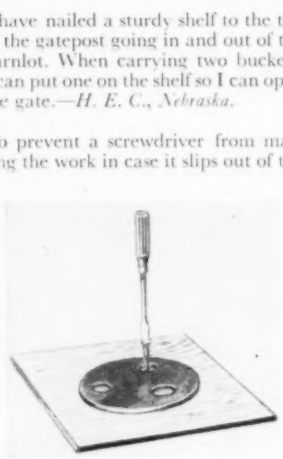
All around the farm

A page written by our readers

To hold carriage bolts when it is desired to cut threads the full length, I place square key stock, or similar square rods, on opposite sides of the square shoulder on the bolt. I secure assembly in the vise and tighten the key stock against the bolt. The round head will be undamaged and threads may be cut to the bolt's shoulder.—*A. G., Kansas.*

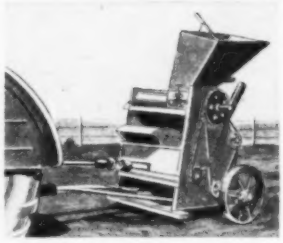
I have nailed a sturdy shelf to the top of the gatepost going in and out of the barnlot. When carrying two buckets, I can put one on the shelf so I can open the gate.—*H. E. C., Nebraska.*

To prevent a screwdriver from marring the work in case it slips out of the



screw slot, I have a steel plate about 1/8" thick. I drill holes thru this plate to correspond to a slightly larger diameter than that of the screwheads commonly used. I start the screw, then slip the plate over it. If the screwdriver slips, it strikes the plate, leaving no mark on the wood. Felt or rubber should be glued to the bottom of the plate.—*J. K., Ohio.*

To reduce the heat of a chimney near wood framing, I line the frame openings with several thicknesses of asbestos sheeting cemented together with asbestos cement. The lining is nailed to the wood so that it is sure to remain in place. This has been used with chimneys built of concrete and is equally good with brick chimneys.—*S. M. D., Michigan.*

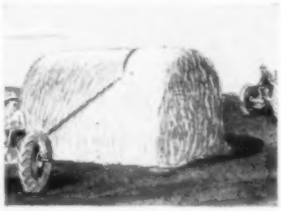


Instead of bolting my corn sheller to the floor, I have designed one that is easily moved around. I put on a power take-off drive instead of a belt and put the sheller on a 2-wheel trailer which is about 4" off the ground.—*H. K., Indiana.*

To hold garage doors open, I nailed strap hinges near the bottom of each door, on the inside. For easy nonstoop release, I ran wires from the free ends of each hinge to hooks or staples driven waist high on the back of each door.—*P. G., New York.*

I have done away with the drudgery of cutting hay and strawstacks by utilizing tractor power in the following manner: Take three strands of new barbed wire about 100' long, and fasten the ends securely to a stout ring or clevis. Make sure all strands are exactly the same length, so tension will be even.

Throw the wires over the stack where a cut is desired, hitch a tractor to each end, and start sawing. The clutches are released alternately as each tractor is being pulled backward toward the stack.—*F. H., Iowa.*

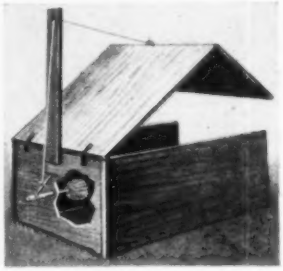


We mark baby chicks one year with a toe punch, and don't mark them the next year. This way we are sure to sell all the old hens in the flock every year.—*M. M., South Dakota.*

We find that by going over the ceilings and sides of our brooders with liquid floor wax, brooders are much easier to clean when we are thru with them.—*S. B. W., Indiana.*

When I am working up wood or posts in the timber, I carry my wedges in an old pail. By making it a habit to drop released wedges into the pail as I work, I have not lost a wedge since I have followed this practice.—*S. B., Ohio.*

I have been able to clean rabbits out of young orchard areas with the simplest kind of box trap as shown.

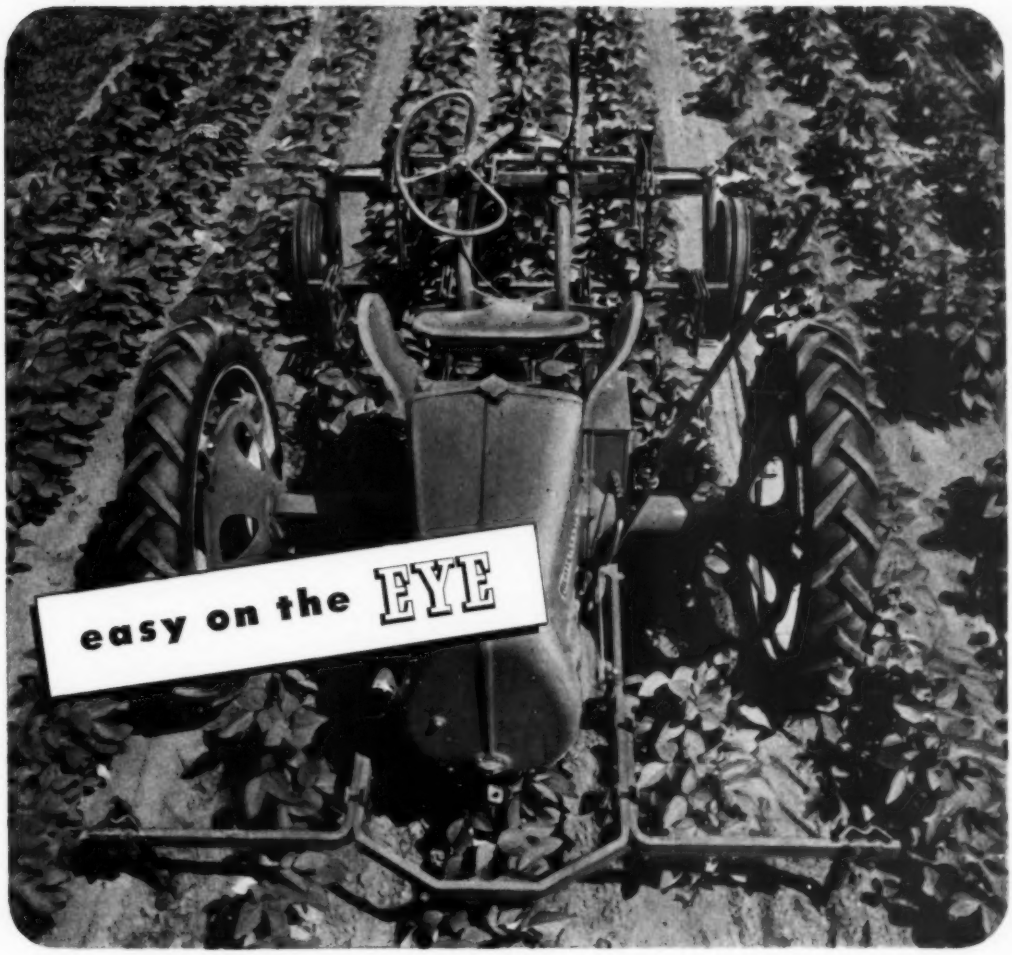


Several of these kept set and visited regularly will be more effective than dogs and hunting.—*M. L., Minnesota.*

When painting trellises or window screens, I hang them securely with wire to the clothesline. The articles can be painted easily on both sides without the usual bother of turning them.—*H. H. R., Michigan.*

Instead of simply junking an old bobsled that had seen its better days, we built one of our feed bunks onto it. Now we have a portable bunk that is very easy to move around in the feedlot.—*H. L., North Dakota.*

Successful Farming **will pay $5 for each item upon publication. You are invited to send us your ideas. We consider each one carefully, but regret we cannot return those not published.—*The Editors***



This picture gives you the driver's-eye view, operating the new rear-engine Model G tractor.

Your eye follows the oncoming rows clearly and easily. You have *straight-ahead* vision, instead of looking down or behind.

Equipped with a new front-mounted, low-set 2-row drill planter (or a multiple-row planter for soybeans and narrow-row crops) the Model G is the ideal self-powered planter.

Any one of 10 front-view Model G Matched Tools can be attached or detached in 5 minutes or less. The tractor wheels can be spaced for planting or cultivating 1 to 6 rows. Speeds range from ¾ to 7 miles per hour, including a special low creeper gear.

This is the tractor to replace that last team of horses. It operates on 2 to 3 quarts of fuel per hour, far thriftier than feeding a team the year 'round.

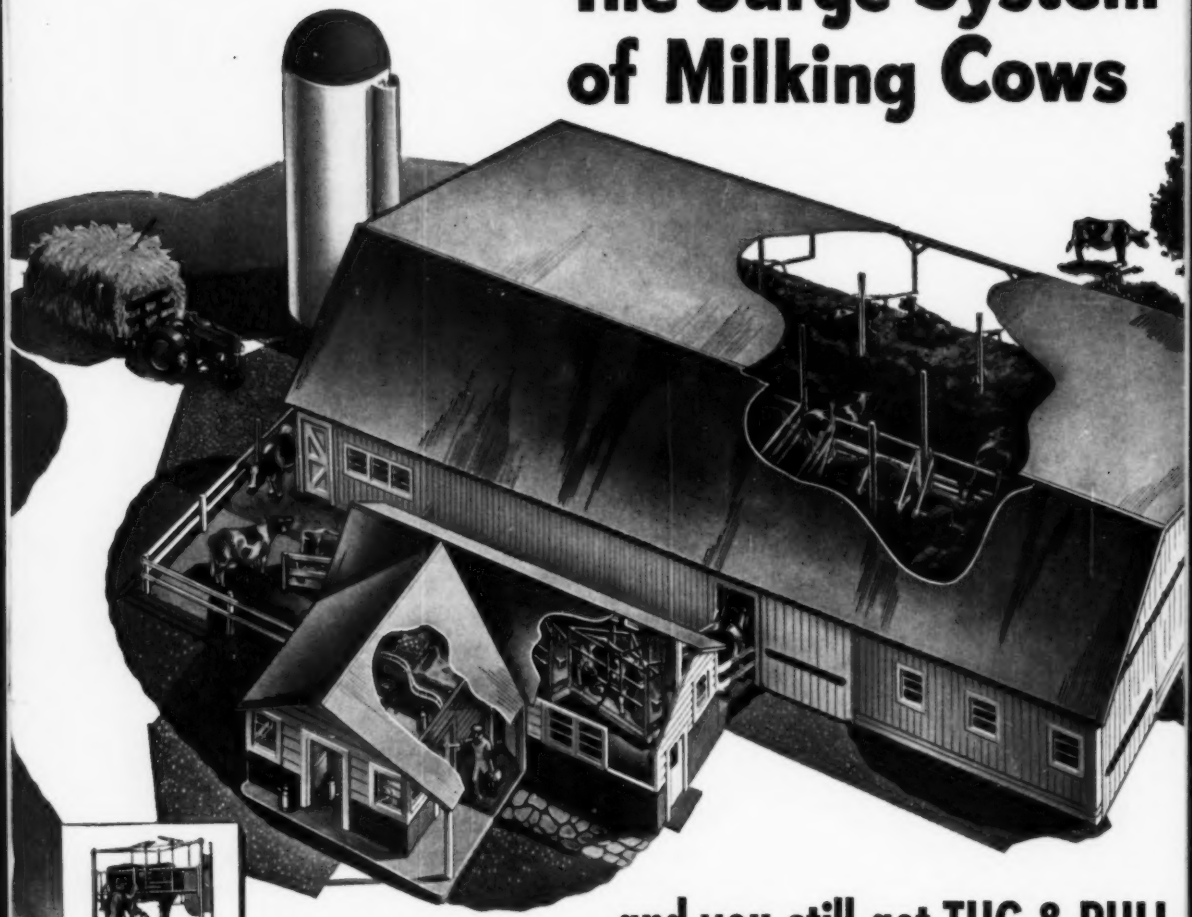
More than a new tractor, the rear-engine Model G is the central unit of a new system of motorized farm tools.

MODEL G *Rear Engine* **TRACTOR**

for some jobs on ALL farms
for ALL jobs on some farms

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

The Surge System of Milking Cows



THIS Book will explain WHY...

Our Free Book describes the Surge System of milking cows and answers a lot of your questions . . . ask us for your copy.

...and you still get TUG & PULL

whether you use an up to the last minute Surge System of milking cows or whether you milk in a very old barn, the Surge gives you the stimulating downward and forward TUG and PULL that gets the milk so quickly and so safely... that's why in 1948 many thousands of dairy farmers have switched to a Surge.

Fill Out and MAIL This COUPON

BABSON BROS. CO.
2843 W. 19th St., Chicago 23, Ill., Dept. 2511

Gentlemen: Please send me your Free Book describing the Surge System of milking cows.

NAME_____

ADDRESS_____

STATE_____

I MILK_____COWS
(number)

Surge
SYSTEM of MILKING COWS

BABSON BROS. CO., Chicago

2843 West Nineteenth St., Chicago 23, Illinois

Copyright 1948 by Babson Bros. Co.

SYRACUSE • HOUSTON • LOS ANGELES • KANSAS CITY
TORONTO • ATLANTA • SEATTLE • MINNEAPOLIS